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OVERVIEW OF THE UNIVERSITY

Social Equity

Lock Haven University is firm in its resolve that equal employment and educational opportunity shall be accorded to all qualified individuals without regard to race, color, religion, disability, life-style, sexual orientation, national origin, sex, ancestry, age or other factors prohibited by law.

The objective of the LHUP Social Equity Plan is to facilitate equal opportunity by taking positive, aggressive steps to improve the employment and educational conditions for all who choose our university as their place of work or study. By enlisting the aid and cooperation of all segments of the campus community behind the equal opportunity effort, the objectives of the LHUP Social Equity Plan shall be accomplished.

All inquiries concerning the program are encouraged to be submitted to the Director of Social Equity of LHUP, Mr. Albert Jones, (570) 484-2838.

This policy is in compliance with federal and state laws, including, but not limited to, Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act, and the Pennsylvania Human Relations Act.

Any individual having suggestions, problems, complaints, or grievances with regard to discrimination under Title IX is encouraged to contact one or both of the campus Title IX coordinators who will review, investigate and respond as appropriate. The Title IX coordinators are:

Ms. Sharon Taylor - Director of Equal Opportunity in Sports
Director of Athletics
213 Thomas Field House
(570) 484-2093

Mr. Albert Jones - Director of Social Equity
(570) 484-2838

Any individual having suggestions, problems, complaints, or grievances with regard to discrimination under Section 504 of the Rehabilitation Act of 1973 and/or the Americans with Disabilities Act is encouraged to contact one or both of the campus Section 504/ADA coordinators who will review, investigate and respond as appropriate. The Section 504/ADA coordinators are:

Dr. Reynol Junco - Director, Disability Services
Russell 104
(570) 484-2926

Ms. Deana Hill - Director of Human Resources

Mr. David Proctor - Director of Facilities Planning
E. Campus B-104
(570) 484-2018

Historical Perspectives

The first catalog of Lock Haven University of Pennsylvania--then called the Central State Normal School--was published in 1878. We have included excerpts from it to give you a sense of how the university began. In 1878 Rutherford Hayes was President of the United States, even though his opponent in the 1876 election, Samuel Tilden, received 250,000 more votes. More than 83 percent of eligible Pennsylvanians voted in that election. In 1880 there were approximately 50 million residents in the United States, and more than four million in Pennsylvania. More than 800 colleges had been established with 11,552 faculty and 116,000 students. More than 12,000 baccalaureate degrees were conferred nationwide. The Central State Normal School had a staff of seven and graduated 16 students in 1878. It consisted of one building located on the hill near what is now High Hall. The following is quoted from the 1878 Catalog.

Location – Historical Perspectives

The Central State Normal School is located in the western part of the city of Lock Haven. The site which is a hill overlooking the city, and commanding some of the finest scenery in the world, consists of over eighteen acres of land generously donated to the Normal School authorities by the late lamented Philip M. Price. The School Building is located about one hundred feet above the level of the town, and for healthfulness and the superiority of its accommodations, it cannot be excelled. The scenery surrounding it, embracing views of the river, the railway, the city, and the neighboring mountains, is rarely equaled for beauty and grandeur. The buildings are supplied with pure mountain water, lighted with gas, and warmed throughout with steam.

Government – Historical Perspectives

All Students entering the Institution are supposed to be ladies and gentlemen, and all will be treated as such. It is the aim of the Institution to make cultivated ladies and gentlemen as well as thorough, practical scholars.

Expenses – Historical Perspectives

For tuition and boarding, including light, room, heat, and washing.

For the Winter Term of 26 weeks, \$130.00

For any time less than half a term, per week, \$5.25

For the Summer Term of 16 weeks, \$80.00

School Regulations – Historical Perspectives

Extracted from 21 total and not part of regulations for 2011

- 1. Students rooming in the Building are requested to provide themselves with slippers.*
- 3. Wrestling, Scuffling, Whistling, or any other rude or boisterous behavior is prohibited in the Building.*
- 5. No Water, Dirt, or other material must be thrown from the porticoes or the windows.*
- 11. Students are not permitted to visit one another's rooms during the regular hours for study.*
- 12. At the ringing of the bell for study all Students will immediately repair to their respective rooms.*
- 13. At the ringing of the bell for retiring, all lights must be extinguished.*
- 18. The Sexes must not associate with each other, except at such times and on such occasions as may be designated by the Principal.*
- 19. Neither Sex will be permitted to trespass on that portion of the Building assigned to the other, nor Students be allowed to assemble in the hall or the recitation-rooms during recreation hours, except when permission is given.*

21. *It is taken for granted that every Student entering the School is disposed to do right and comply with the Regulations of the Institution. When it is found a Student cannot be trusted he will be dismissed...*

Locations

The main campus of LHUP is located in the ridge and valley province on the edge of the Allegheny Plateau. The West Branch of the Susquehanna River runs alongside the campus and the valley is surrounded by the Bald Eagle Mountains. The area is rich in outdoor recreational opportunities -- swimming, boating, fishing, hunting, hiking, canoeing, camping, and skiing. Even so, the cultural centers of New York City, Philadelphia, Pittsburgh, Baltimore, and Washington, D.C. are only a few hours drive from the main campus.

The town of Lock Haven is a small, charming community. The historic district contains tree-shaded streets and immaculate Victorian homes. The university supports the city in many ways. For example, students volunteer to work in local social service agencies and businesses, and the university sponsors cultural and athletic events.

The university also operates a branch campus in Clearfield, 60 miles west of Lock Haven, that offers associate degrees in criminal justice, healthcare professions, business administration, and nursing. This campus is also located near the west branch of the Susquehanna River.

The graduate-level physician assistant program also offers courses in Coudersport and in Harrisburg at the Dixon University Center.

History, Philosophy and Objectives

LHUP was founded in 1870 as the Central State Normal School, offering a two-year program designed to train teachers for the public schools. In 1927, the school became a four-year degree-granting college of teacher education. With the inauguration of the Arts and Science degree program in 1960, the multi-purpose institution became Lock Haven State College offering Bachelor of Arts and Bachelor of Science degrees in liberal arts fields, along with the Bachelor of Science in Elementary and Secondary Education, and a Bachelor of Science in Health and Physical Education. In 1983, the institution was renamed Lock Haven University of Pennsylvania.

Today, the university offers the Bachelor of Arts and Bachelor of Science degrees in liberal arts fields; the Bachelor of Fine Arts in Music; the Bachelor of Science in Education; the Bachelor of Science in Health and Physical Education; the Bachelor of Science in Recreation Management and the Bachelor of Science in Health Sciences. At the graduate level, the university offers the Master of Liberal Arts, the Master of Education in Teaching and Learning, Master of Education in Alternative Education, and the Master of Health Science, Physician Assistant.

The individual student is the focal point for the educational program at LHUP. Although specific requirements are established for each major field, each of the university's 5000 students (4700 at the main campus and 300 at the Clearfield branch campus) still has the responsibility for choosing electives and for pursuing individual interests. Through formal and informal instruction, students are guided in developing their own potential and in achieving a better self-understanding.

Lock Haven University encourages academic excellence in both the General Education program and in an area of specialization. The university's educational program is designed to stimulate a student's intellect, develop a sense of individual and community responsibility, and increase knowledge and understanding of different cultures. Through formal instruction and extracurricular activities, students develop intellectual, emotional, and physical capabilities to achieve personal and professional goals and to participate in, as well as to improve and preserve, a democratic society.

By the time a student graduates, he or she should:

- Have acquired through general studies the knowledge, skills and values needed to live effectively in one's own culture;
- Have mastered the skills of effective written, oral and visual communication;
- Be informed and intellectually curious about himself/herself as a human being, about the natural world, and about his/her own cultural heritage;
- Appreciate other cultures through knowledge of art, religion, politics, literature, and history;
- Employ knowledge of the past to understand current and future problems.

Alumni Association

The Lock Haven University Alumni Association was founded in 1887 and has served through the years as the continuing tie between the alumni and their alma mater. Its members include most of the more than 25,000 living graduates and former students with known addresses.

The Alumni Association provides the alumni of LHU with opportunities to share their memories and remain active participants in the university community through communications and specific programs. This is accomplished through regional receptions from coast to coast; planned events for Homecoming; **The Haven**, the university/alumni magazine which is published two times a year; and the alumni homepage (www.alumni.lhup.edu) which is dedicated to informing alumni of upcoming events, benefits and opportunities available to them as well as current news about the university.

The office of Alumni Relations, located in Durrwachter Alumni Conference Center, is the center of alumni activities on campus. The office maintains the alumni records, assists in conducting the affairs of the association and serves as the communication center for all alumni inquiries. Alumni are always welcome and should feel free to visit the campus on any occasion.

Campus and Physical Plant

The 200-acre campus of Lock Haven University, including 19 acres at Clearfield Branch Campus and 44 acres at Sieg Conference Center, is a unique blend of natural settings, historic buildings and modern facilities. The following section describes each building on the main campus.

Academic and Auxiliary Buildings

(Identification of the person whose name the building carries is noted parenthetically)

Annex - Courthouse Annex was acquired in 1998 and is used for classes (FLS), faculty offices, Graduate Studies, LHU Army ROTC, and storage.

Akeley Building (Archibald Paul Akeley, Potter County Schools superintendent and trustee) - Completed in 1930 and formerly known as the Campus School, this building contains classrooms, the Institute for International Studies, department of Business Administration, Computer Science and Information Technology offices, computer laboratories, and Career Services.

Bentley Hall (Deborah M. Bentley, college dietician, 1923-1957) - A food service building, opened in 1966. More than 800 students can be served at one sitting in the dining area. Also in this building are the faculty/staff dining facility and the Bentley food court and convenience store. Completely renovated: 2007.

Durrwachter Alumni Conference Center – Office of Alumni Relations, Admissions, University Foundation Office

East Campus – Purchased from Keystone Central School District in 2003, East Campus is comprised of an administration building, greenhouse, vo-tech building, and surrounding property. The building houses Purchasing and Business Office, Human Resources, the Small Business Development Center, and Social Equity.

Facilities Building – Purchased in 2003 from Keystone Central School District. Presently houses the Facility Department.

Glennon Infirmary (Katherine A. Glennon, R.N., college nurse, 1941-1967) - Completed in 1967, the infirmary has a physician or physician assistant on campus five days each week and registered nurses on duty from 8 a.m. to 4 p.m. Monday through Friday. Law Enforcement is housed in half of this building and provides campus security, parking control, and other safety services.

Health Professions Building – Purchased from Keystone Central School District in 2006. This 43,146 square foot building contains the departments of Health Sciences, Physician Assistant, and the Facilities Maintenance Shop.

Himes Building (Jesse Scott Himes, elementary education teacher, 1920-1936) - Himes was completed in 1961 for use as a Special Education building. Today, it houses the department of Recreation Management.

Honors House – Built in 1940 as the home for the Lock Haven State Teachers College Maintenance Superintendent. After 1990 this 3,435 square foot building was turned over to the departments of Recreation Management and the Honors Program. In 2010, the use of the building changed once again to house only the Honors Program.

Hursh-Nevel Maintenance Building (George B. Hursh, 1898-1941; E. Ross Nevel, Sr., 1941-1956; superintendents of buildings and grounds) - Completed in 1968, the building houses maintenance equipment, duplicating, mailroom, a receiving/storage area, and a garage for university vehicles.

Jack Stadium (Hubert H. Jack, professor of health and physical education, coach of football and wrestling, 1943-1968) - Completed in 1975, the football field, locker rooms, and an all-weather track provide facilities for instructional, intramural, and intercollegiate programs. A capital improvement project added an artificial turf surface to the field, which was then renamed as the Charlotte T. Smith field in honor of the former professor and field hockey coach. The stadium complex also features a new eight lane track and complete lighting system.

Parsons Union Building (Richard T. Parsons, Ed.D., alumnus '31, president, 1942-1970) - Completed in 1968, expanded and rededicated in 1993, the Student Union contains the Eagle Wing snack bar, LHU Bookstore, Student Activities Office, Eagle Eye student newspaper as well as several other student organizations. Recreation facilities include a game room, TV viewing, conference rooms and a commuter lounge.

Price Performance Center (Philip M. Price, donor of land on which the university was originally built) - The center, constructed in 1938, has a seating capacity of 672 and was completely renovated and reopened in 1989. The building features an extensive electronic music lab and a center for student testing and evaluation.

Raub Hall (Albert N. Raub, Ph.D., first principal of Central State Normal School, 1877-1884) - Completed in 1964, this classroom building also houses the department of History, Political Science, Economics, and Foreign Language, and the department of English. This building also features a computer assisted teaching classroom, and a state-of-the-art distance education classroom.

Robinson Hall (Gerald R. Robinson, Ed.D., professor, dean of instruction, vice president for academic affairs, 1954-1976) - This seven-story multi-purpose building was completed in 1981. It houses the College of Education and Human Services departments of PreK/Early Childhood, Middle Level/Elementary, Special Education, and Sport Studies and the Arts and Sciences departments of Psychology, Mathematics and Communications and Philosophy. The building also contains the Hamblin International Auditorium, a color television studio, a radio station, and a developmental mathematics facility devoted to remediation and placement testing. The Computing Center in Robinson Hall is the nerve center of the LHUPnet, a high speed fiber optic network which connects all of the campus's buildings together for email, bulletin programs, electronic library, and Internet access. The LHUPnet is connected to the State System of Higher Education Network, which electronically links the 22 campuses of the 14 State System Universities, including LHU's Clearfield Campus. Also contained in Robinson Hall are the "Personal Studios" used to deliver courses at a distance and communicate via compressed video technology.

Rogers Gymnasium (James H. Rogers, alumnus '49, an athlete, World War II veteran, and popular high school teacher who died shortly after receiving his degree) - This is the oldest building on campus dating from 1896 and is used for classes in physical education, intramurals, sport practice and weight training.

Sieg Conference Center (donated to the university in 1965 by the Cerro Corporation of Bellefonte, Pennsylvania, and named to honor the William Sieg family who were instrumental in donating this facility to the university) - The property consists of 44 acres of woodland and is located in the "Narrows" of Fishing Creek, approximately three miles east of Lamar on Route 780 (25 minutes from the university). There is a large main lodge equipped to feed up to 200 people and bunkhouses which will accommodate 40 people. The center offers ideal facilities for a variety of uses such as seminars, conferences, training courses, staff meetings, outdoor class meetings, camping, outings, picnics and recreation. (The fishing in Fishing Creek, incidentally, is excellent.) The center may be scheduled for use by day, overnight or weekends.

Sloan Fine Arts Building (John Sloan, internationally renowned artist, born in Lock Haven) - Completed in 1973, the building contains classrooms, practice rooms, art studios, faculty offices, a small theatre, and a large theatre for student and professional performances and lectures. Housed here are the departments of Art and Performing Arts.

Stevenson Library (George B. Stevenson, alumnus '06, state senator, trustee) - The library, completed in 1969, contains books, journals, DVDs, educational curriculum materials, media equipment, and other collections; space for individual and group study; and desktop and laptop computers. Librarians provide research assistance, in-class instruction, and consultations. The second floor holds the University Archive, the Helen Burgess Terrill Archive Treasury Room and the new Stephanie A. Wollock Learning Commons, which includes the University Writing Center and the Schantz Tutorial Center. Also housed in the library are the offices of the Dean of Arts and Sciences, the Dean of Education and Human Services, the Assistant Dean for both colleges, and their staff.

Student Recreation Center (SRC) opened its doors in April 2002. The 42,000 sq. foot facility has been a significant addition to student life at LHU. The SRC houses three multipurpose courts which can be used for basketball, volleyball, tennis or badminton. Also included in the building is a dance/exercise room for aerobics, yoga and other isolated programs. A fitness room is available for use with free weights, nautilus-style machines, and dumbbells. A 1/9th mile track is also located in the facility. An indoor climbing wall, standing at a height of 30', as well as outdoor facilities lighted for basketball, sand volleyball and tennis, are available for use by LHUP students.

Sullivan Hall (Cornelius M. Sullivan, dean of instruction, 1908-1950) - Originally constructed as a library in 1938, it is now the university's administration building. The three-story structure contains the offices of the President, Provost and Vice President for Academic Affairs, Vice President for Finance, Administration and Technology, Vice President for Student Affairs, Student Affairs Office, and Department of Marketing and Communications.

Thomas Annex was completely renovated in 1984. It houses the department of Sociology, Anthropology, and Social Work.

Thomas Field House (David W. Thomas, M.D., alumnus '06, trustee) - This facility, built in 1935, was completely renovated in 1984. It is used for the teaching of physical education classes, sport practices and competition, and intramural activities. It contains a large wrestling room, main arena, press box, training rooms, offices for faculty and coaches, classrooms, and locker/shower accommodations. The Director of Athletics and the offices of a number of coaches are located here.

Ulmer Hall (Levi J. Ulmer, science and geography teacher, 1918-1941) - The main building, constructed in 1952 and renovated in 1996, contains laboratories for the natural and earth sciences and classrooms. A major building addition housing a greenhouse, planetarium, additional classrooms, laboratories and research facilities was completed in 1969.

Zimmerli Gymnasium (Elizabeth K. Zimmerli, Ed.D., director of health and physical education, 1946-1966) - Completed in 1970, the gymnasium contains three teaching stations, a swimming pool, dressing/locker/shower facilities offices for the department of Health and Physical Education, and classrooms.

Residence Halls

Campus Village – An apartment complex which houses 172 students, purchased by the LHU Foundation and leased by the university to supplement housing needs.

Gross Hall (Lydia Gross, alumna and teacher, 1946-1972; Rebecca Gross, trustee and member, State System of Higher Education Board of Governors) - Completed in 1973, Gross Hall houses 200 students.

High Hall (Morris DeTurk High, dean of instruction, 1904-1937) - Completed in 1970, High Hall houses 200 students and overlooks a wooded section of the campus.

McEntire Hall (Helen L. McEntire, trustee, 1939-1957) - Completed in 1969, this seven-story building houses 400 students. Located on the highest point on campus, it affords a scenic view of Bald Eagle Valley.

North Hall (William R. North, Ph.D., chairman of the English Department, 1935-1963) - Completed in 1967, North Hall provides a scenic view of the campus area and the river beyond. It houses 200 students.

Russell Hall (Lillian E. Russell, education supervisor, 1925-1944) - Completed in 1953, the building is situated in the center of the campus and houses 130 students. The Department of Academic Development and Counseling, the Registrar's Office, and Student Financial Services Office (Financial Aid and Student Accounts) are housed on the first floor to make a "one-stop shopping" environment for the student.

Smith Hall (Samuel Jacob Smith, teacher of math, 1927-1958) - Completed in 1960, Smith Hall houses up to 250 students, includes single units, and is located on the lower part of the campus.

Woolridge Hall (Harold D. Woolridge, alumnus '11, trustee, 1932-1960) - Completed in 1964 and housing 200 students, Woolridge Hall is located on the lower part of the university campus.

All residence halls provide kitchen, recreation lounge, coin and card operated laundry, and study facilities. Computer laboratories located in all residence halls link students to the campus network.

Foundation Owned Housing

Evergreen Commons – Completed in 2003 and housing 408 upper-class students, Evergreen Commons provides a suite style environment with single rooms, a common living area, a kitchen, full size washer and dryer and full kitchen with stove, refrigerator, garbage disposal and dishwasher in each suite

Accreditations

www.lhup.edu/accreditation

Lock Haven University is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104 (267-284-5000). The Middle States Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation.

Program Accreditations

Athletic Training – Commission on Accreditation of Athletic Training (CAATE)

Community Health – SOPHE/AAHE Baccalaureate Program Approval Committee (SABPAC)

Computer Information Science – ABET, Inc.

Counseling Center – International Association of Counseling Services (IACS) Board of Accreditation

Nursing – National League of Nursing Accreditation Commission (NLNAC)

Physician Assistant – Accreditation Review Commission of Education for the Physician Assistant (ARC-PA)

Recreation Management – Council on Accreditation for Recreation, Park Resources and Leisure Services (NRPA)

Social Work – Council on Social Work Education (CSWE)

Sport Administration – North American Society for Sport Management (NASSM)

Teacher Education – National Council for the Accreditation of Teacher Education (NCATE) and the Pennsylvania Department of Education (PDE)

In addition, the following programs within teacher education have been nationally recognized by the appropriate Specialty Professional Associations (SPAs).

- Early Childhood Education – National Association for the Education of Young Children (NAEYC)
- Elementary Education – Association for Childhood Education International (ACEI)
- English – National Council of Teachers of English (NCTE)
- Health & Physical Education – National Association for Sport & Physical Education (NASPE)
- Mathematics – National Council of Teachers of Mathematics (NCTM)
- Science (Biology, Chemistry, Earth Science, General Science, Physics) – National Science Teachers Association (NSTA)
- Social Studies – National Council for the Social Studies (NCSS)
- Special Education – Council for Exceptional Children (CEC)

Program Recognitions

Chemistry – American Chemical Society (ACS)

Master of Liberal Arts – Association of Graduate Liberal Studies Programs (AGLSP)

The curricula and physical plant of Lock Haven University are fully accredited by:

The American Medical Association

The Bureau of Professional and Occupational Affairs of the Commonwealth of Pennsylvania

The Association of American Colleges and Universities

The Pennsylvania State Board of Nursing

The university is a member of leading educational organizations, including:

The Center for Agile Pennsylvania Education

The International Association of University Presidents

The Pennsylvania Black Conference on Higher Education
The American Council on Education
The American Association of Colleges for Teacher Education
The American Association of State Colleges and Universities
The American College Personnel Association
The National Association of College and University Business Officers
The Pennsylvania Association of Colleges and Universities
The National Association of Student Personnel Administrators
The university is an associate member of the Wallops Island Marine Science Consortium, Wallops Island, Virginia

ADMISSIONS

<http://www.LHUP.edu/admissions>

Lock Haven University is dedicated to providing all students with a quality education at an affordable price. By combining challenging coursework with real world experiences, students are prepared to be successful in their chosen field of study.

LHU is home to approximately 4,700 undergraduate students. Small class sizes, a 21:1 student-to-faculty ratio, and professors that care about student success make LHU a special place to earn a degree. Our small size allows students to quickly form meaningful relationships with professors and academic advisers to ensure success in the classroom.

Visiting campus is the best way to learn more about LHU. Whether you choose to schedule a weekday or open house visit, our staff and current students will give you a first-hand look at LHU. Visit <http://www.LHUP.edu/admissions/visit/index.shtml> to register for your campus visit.

Standards and Requirements

The following general requirements have been established for admission to LHU.

1. High School Curriculum – Students must successfully graduate from an approved four-year high school or institution of equivalent grade, or equivalent preparation (e.g. GED) as determined by the Credentials Division of the Pennsylvania Department of Education. Students must be enrolled in a college preparatory program throughout high school to be eligible for admission. Although Advance Placement (AP) or Honors courses are not required for admission, they do carry extra weight in the application review process. The recommended high school curriculum includes four units of English, Algebra (and higher math), Natural Science (with labs), and Foreign Language.
2. Grades – Students must demonstrate academic achievement in the classroom. In addition to grades, high school GPA and class rank will be highly considered in the application review process. In many cases, senior grades are requested and taken into consideration during the file review process.
3. SAT/ACT Scores – Students must complete one of these college entrance exams in order to be considered for admission to Lock Haven University. The critical reading and math sections are evaluated on the SAT. The writing section of the SAT exam is not used in the admissions decision

process. *Please note, students who graduated from high school three years prior to applying for admission to LHU are not required to submit SAT/ACT scores.*

Application Procedures

1. Students are encouraged to complete the application online. The processing fee for the online application is \$25.00. Paper applications are also available upon request; however, a \$40.00 fee is required for processing.
2. Students should request that their secondary school transcript is forwarded from the guidance office directly to Lock Haven University Office of Admissions.
3. SAT or ACT scores should be submitted from the testing center or the high school. Test scores printed on the secondary school transcript or enclosed with the official documents from the high school are considered official.
4. Veterans should complete VA application form 22-1990 which may be secured from the local veterans' office. This must be completed and returned to the regional office having jurisdiction over the veteran's affairs.
5. If admitted, students are required to pay a \$200.00, non-refundable, enrollment deposit. The *National Deposit Deadline* is May 1st of the year that the student will enroll. Once paid, the Office of the Registrar will begin working to construct the student schedule, and the Student Life/Housing Office will secure a room for the student.
6. After the enrollment deposit has been received and processed, the student will receive a physical examination report that must be completed by a physician. This form must be sent back to LHU immediately after completion.

Supplemental Materials

Letters of recommendation, essays, and interviews are optional. Students who have been high achievers in high school typically do not have a need to submit these extra documents. Students who feel that a blemish on their transcript can be explained through an essay or letter of recommendation should consider submitting the additional documents.

Special Programs

Students who have applied to the Health Science Pre-Physician Assistant program and wish to be considered for the 3+2 accelerated program must apply and be accepted prior to November 1st. Students who are interested in being considered for this program are encouraged to apply early.

High School Equivalent Diploma

Residents of Pennsylvania who have not completed four years of high school may meet entrance requirements by securing a High School Equivalent Diploma.

Act 212 of the 1945 session of the General Assembly authorizes the Department of Education (a) to hold examinations; (b) to evaluate educational studies of equivalent standard; and (c) to grant credits, certificates, or diplomas to eligible persons. The High School Equivalent Diploma, issued by the Department of Education, is accepted as equivalent to an approved senior high school diploma. Any resident of Pennsylvania, regardless of age, whether enrolled or not in a secondary school, who satisfies by examination the requirements

prescribed for graduation from a secondary school by the Department of Education, is entitled to receive the High School Equivalent Diploma.

Any eligible person may obtain the High School Equivalent Diploma by submitting transcripts and receiving credit for subjects complete in any of the following ways:

1. In accredited secondary schools (day, evening, or summer).
2. In the United States Armed Forces Institute.
3. In evening or extension courses established by schools and colleges, accredited or approved by the State Council of Education of the Department of Education.
4. In institutions maintained by the Commonwealth and/or the Department of Education.
5. By examination administered by the Department of Education and its designated agents.
6. Through arrangement with the veterans' testing service of the American Council on Education.
7. By presenting evidence of having passed the College Entrance Board examination in 15 units of work which will meet the requirements for matriculation in an accredited college.
8. By presenting evidence of full matriculation and the satisfactory completion of a minimum of one full year in an accredited college.

Transfer Student Policy

1. Any student who has attended a post-secondary institution is considered a transfer applicant.
2. Candidates must have at least a 2.0 cumulative grade point average.*
3. Candidates must have at least 12 transferable credits.

* Please note, select programs of study have higher cumulative grade point average requirements that must be met after enrolling at LHU. Please contact the Office of Admissions for specific information.

Transfer Students & Application Procedure

1. Students who would like to transfer must submit an application. Students are encouraged to complete the application online. The processing fee for the online application is \$25.00. Paper applications are also available upon request; however, a \$40.00 fee is required for processing.
2. Official transcripts must be sent from all previously attended colleges.
3. All information must be received by December 1st for spring semester applicants, and by June 15th for all fall semester candidates.
4. Admission to LHU is offered on a rolling basis; therefore, priority is given to those students who apply early. Evaluation and notification of credits accepted in transfer begins March 1st for accepted candidates who have paid their enrollment deposits. If the student is currently enrolled at another institution, the offer of admission is contingent upon successful completion of the course work in which the student is enrolled.

International Students

Students seeking admission from foreign countries should send a request for application materials well in advance of their intended starting date. A special International Student Application Packet may be requested from the International Studies Office. All materials in the packet must be completed and received prior to consideration for admission.

All international students whose primary language is not English are required to take the Test of English as a Foreign Language (TOEFL) and, at the minimum, achieve a score of 550 on the paper-based test or a minimum score of 213 on the computer test before being admitted for study. To request TOEFL test information write to: Test of English as a Foreign Language, Box 6155, Princeton, NJ, 08541 U.S.A; or fax a request to (609) 520-1093. Test score reports must be received directly from the testing service. Scores will be received by LHU provided the student indicates code "2654" on the TOEFL registration form.

Readmission of Former Students

Students who have withdrawn from the university for any reason may apply for re-entry to any semester by following the [Request to Resume Studies](#) process as outlined on the Registrar's Office web page. Official transcripts of any credits completed at other institutions during the withdrawal period must accompany the request. Students are encouraged to check with the Office of Student Financial Services about returning to the university and the effect that this has on their financial aid.

Students who have graduated from LHU must [re-apply](#) to the university through the Office of Admissions.

STUDENT FINANCIAL INFORMATION

www.lhup.edu/financial-services

The Financial Aid and Bursar's offices were combined to form one office of Student Financial Services. This represents a "one-stop-shop" for students who need information on their financial aid and student account. Detailed information can be located at <http://www.lhup.edu/financial-services/index.htm>

Tuition rates and refund schedules for all state system universities are established by the Board of Governors of the State System of Higher Education. Since the state subsidizes these institutions, and since it is possible for a number of students to earn part of their expenses through campus employment or the Federal work-study program, the total yearly costs are comparatively low. All fees are subject to change without notice. Please check our web site at <http://www.lhup.edu/financial-services/cost-tables.htm> for the most up-to-date tuition and fees. The university operates on a semester based system. Each student will be invoiced at least twice during the year: in late July for the Fall semester and then in December for the Spring semester. Due dates will be on the student's invoice.

Housing and Food Service

The university makes every effort to help beginning students adapt successfully to college. For this reason, the university reserves the right to require students to live on campus for a designated period during their study at LHU. Exceptions from this requirement will be considered on a case by case basis.

All arrangements for housing services other than those noted are subject to the action of the Council of Trustees as reviewed by the Fees Committee of the Board of Presidents and approved by the Board of Governors. All students who live on campus are required to accept the board contract.

Current costs for housing and food service/meal plans can be found at <http://www.lhup.edu/financial-services/cost-information.htm>.

Deposits and Other Fees

Deposits

A deposit of \$200 will be required at a designated time after the university notifies applicants of their acceptance. This deposit is credited to the account of applicants when their bill is rendered at the beginning of the semester. The deposit is non-refundable.

All checks should be made payable to "Lock Haven University" and sent directly to the Admissions Office.

Student Activity Fee

All full-time students of LHU must pay an activities fee as mandated by the President of the university under Legislative Act XIII of the General Assembly of Pennsylvania, and administered under regulations approved by the Council of Trustees through the student association. This fee helps to underwrite the cost of student activities, intercollegiate athletics, social functions, dances, movies, concerts, art and lecture series, cultural events, the student newspaper, and PUB recreational facilities.

Each student receives a student identification/activities (I.D.) card. This card is the property of the student association. It is issued at the beginning of the student's freshman year and should be kept as long as the student is enrolled at the university. The I.D. card is validated each semester upon the payment of the student activities fee. The validated I.D. card must be presented to gain admission to all events sponsored by the university and student organizations. There is no charge for the original card. There is a charge of \$15 for replacement cards.

Married Students

One activities fee will cover the entire family of a married student. Any member of the family who is an enrolled student of the university must pay the full individual activities fee. It is the responsibility of the student to inform the I.D. Office secretary that he/she is married so the I.D. card can be marked accordingly.

Delinquent Accounts

No student shall be enrolled, graduated or entitled to receive an official transcript until all charges have been paid. Failure to pay will result in collection proceedings. No academic transcript will be issued until the total account is zero.

Other Fees

Other, or miscellaneous, fees include, but are not limited to, the following. Details may be found at <http://www.lhup.edu/financial-services/Miscellaneous-Fees.htm>.

- Application Fee
- Damage Fee
- Deferred Payment Fee
- Drop-Add Fee
- Non-Sufficient Fee
- Recording Fee
- Certification Fee

Overseas Student Fee
Off-Campus Service Fee
Parking Decal Fee
Late Payment Fee
One-Time Registration & Transcript Fee

Refunds

Refund information can be found at <http://www.lhup.edu/financial-services/bursar-refund.htm>

Financial Aid

Financial Aid to meet the costs of attending LHU is available from a variety of programs. The majority of these programs provide funds based on computed financial need, but some non-need-based programs are also available.

The office of Student Financial Services (SFS) coordinates these programs. Detailed information can be found at <http://www.lhup.edu/financial-services/index.htm>.

Programs Available

Need-based financial aid includes:

Grants (Gift aid with no repayment or work requirement)

State

Pennsylvania Higher Education Assistance Agency (PHEAA)

Other PA Grant programs: <http://www.pheaa.org/>

Grants of other states for their residents

Federal

Federal Pell Grant Program

Federal Supplemental Educational Opportunity Grant (FSEOG)

Loans

Federal Perkins Loan Program - A long term, low interest program with repayment following graduation or termination of enrollment.

Lock Haven University participates in the Federal Direct Loan Program. This program offers loans to both students and parents. These loans include: Federal Direct Stafford, Federal Direct Plus, and Federal Direct Graduate Plus. Also, information about Private Alternative Loans is available. For up-to-date information, please go to <http://www.lhup.edu/financial-services/loans.htm>.

Student Employment (On-campus work during school enrollment)

Federal Work Study Program (FWSP)

Campus Employment Program

Details for these opportunities can be found at: <http://www.lhup.edu/studentemployment/>

The following financial aid programs are available on both need and non-need basis:

Scholarships

A number of scholarships (restricted and unrestricted) are made available to both incoming and presently enrolled students by the LHU Foundation, a charitable non-profit corporation established to accept gifts and bequests for the benefit of the university and to administer them according to the donor's wishes. For detailed information about the Foundation and the different types and amounts of scholarship awards available for both freshmen and currently enrolled students, please contact <http://www.lhup.edu/foundation/scholarships/index.htm> .

The Mary Ann Fox Scholarship awards are made to graduates of any high school in Lycoming County or Clinton County, Pennsylvania who are of good character and whose financial conditions are such that they could not otherwise attend college. The awards are made annually but subject to renewal, in varying amounts, depending on the applicants' justification of need and the amount of money available in the scholarship fund. These awards are limited to use at four institutions: The Pennsylvania State University, Lock Haven University, Lycoming College, and Bucknell University. The scholarship applications are available through the President's Office at LHU at the beginning of February each year.

In addition, two and three-year scholarships are available through the Department of Military Science. Information about these scholarships is available by contacting the Office of Military Science.

Athletic Grants

LHU provides grants-in-aid to outstanding student athletes at a level compatible with available funding. The Department of Athletics, through the LHU Foundation, assists men and women athletes with their educational expenses. The amount of aid available varies from program to program and within NCAA limitations.

Teach Grant

Teacher Education Assistance for College and Higher Education Grant (TEACH) –is a federal grant for current and prospective teachers created by the College Cost Reduction Act of 2007. Eligible students may receive up to \$4,000 per academic year with aggregate amounts of \$16,000 for students for their first undergraduate or post-baccalaureate program. To be eligible for a Teach Grant at Lock Haven University, a student must complete a current FAFSA have a 3.25 cumulative GPA, have been granted degree candidacy by the LHU education department and be pursuing a degree in a high needs teaching field. For more information about the TEACH Grant, please visit <http://studentaid.ed.gov/PORTALSWebApp/students/english/TEACH.jsp>. Please Note: Interested students should carefully review the eligibility requirements of this grant and consider how likely they are to meet them.

IMPORTANT: If a grant recipient fails to complete this service obligation, all TEACH Grant funds that he or she received will be converted to a Federal Direct Unsubsidized Stafford Loan. The recipient must then repay this loan to the U.S. Department of Education and will be charged interest from the date the grant(s) was disbursed.

Applying for Financial Aid

To apply for financial aid, all students must complete the Free Application for Federal Student Aid (FAFSA). This form can be accessed at www.fafsa.ed.gov and filed after January 1st of each year. Pennsylvania residents should complete the FAFSA before May 1st of each year. Completion of the FAFSA and transferring the data to the Pennsylvania Higher Education Assistance Agency (PHEAA) allows Pennsylvania residents to be considered for a Pennsylvania State Grant. Students must complete any other supplemental forms requested by the Pennsylvania Higher Education Assistance Agency for State Grant consideration. Residents of all other states should apply for the state grant of their own state according to required procedures. Applications

should be submitted by March 15th each year for the following Fall semester. Please go to <http://www.lhup.edu/financial-services/index.htm> for more detailed information.

Return of Title IV Funds

In accordance with Federal regulations, those students who receive federal financial aid and who officially withdraw from Lock Haven University during the first 60% of a term will have their federal financial aid adjusted.

The adjustment is based on the percentage of **calendar days used** in the academic period. This percent is calculated by dividing the number of days in the term (excluding breaks of five days or longer) into the number of days completed prior to the withdrawal (excluding breaks of five days or longer).

The date of withdrawal will be the date the student **begins** the withdrawal process at the Student Affairs Office unless there is documentation of class attendance beyond that date.

Students who do not follow the official withdrawal procedure but who stop attending classes for all of their courses will be considered to have withdrawn at the 50% point of the term unless attendance is documented after that time. There will be no adjustment to federal financial aid after the completion of 60% or more of the term.

Once the amount of federal funds to be returned has been calculated, the funds will be returned in the following order:

- Unsubsidized Stafford Loans
- Subsidized Stafford Loans
- Perkins Loans
- PLUS Loans
- Pell Grant
- Smart Grant
- ACG Grant
- Supplemental Educational Opportunity Grants

Students who receive a refund of financial aid prior to withdrawing from the university may owe a repayment of federal financial aid funds received. Students will be billed by the Student Financial Services Office and will be given 30 (thirty) days to repay the funds to the university. Students who fail to repay the unearned portion of federal financial aid funds given to them will become ineligible for continued receipt of financial aid until the repayment is made.

Failure to Pay

Failure to pay will result in collection proceedings. No academic transcript will be issued until the total account is zero.

Satisfactory Academic Progress (SAP)

Federal Satisfactory Academic Progress Policy: Note –This is a new policy effective beginning fall semester 2011.

In accordance with federal regulations, this policy applies to all students requesting Title IV federal financial aid regardless of whether federal aid has been received previously. These regulations require that recipients of federal financial aid maintain a satisfactory rate of progress toward completion of a degree (i.e. pace) and must be in good academic standing based on a cumulative GPA.

Students will be reviewed at the end of each enrollment term (i.e. fall semester, spring semester, and summer session), after grades are transcribed by the Registrar's Office. All enrollment terms, including summer, must be considered in the determination of SAP, even enrollment terms for which the student did not receive federal financial aid. For the details of the SAP policy, please refer to the following website:
<http://www.lhup.edu/financial-services/currentsap.htm>.

SERVICES FOR STUDENTS

www.lhup.edu/student-handbook

The opportunities provided to students for growth as individuals will be guided by their interests and concerns in Lock Haven's supportive environment. Learning takes place in many ways and in many different forms. Students undertake all of the aspects of achieving a college education through participation in activities in the classroom and outside of it. The Division of Student Affairs has a primary focus on the development of each student's potential. This basic philosophy directs the types of services that are provided to the student body by the university. The division is directed by the Vice President for Student Affairs.

The university has an investment in its student body and in maintaining a healthy environment for learning. The initial year of college experience is the most important in forming foundations for future achievements. The Division of Student Affairs provides the leadership for creating an environment that supports students in achieving their educational goals, especially during the freshman year.

On-Campus Housing

The university provides accommodations for approximately 1,800 students living on campus. Residence halls are available for freshmen and all students have an opportunity to reside on campus during their college career. All full-time students with fewer than 30 earned credits must live on campus unless they commute from within a 50-mile radius or have obtained a special exemption from the Dean of Student Affairs. Students learn many responsibilities by residing on campus and assume responsibility for their living environment. Events are planned to foster educational, social, cultural, and recreational interests among all students. Students participate in governing themselves by formulating policies that are reviewed annually. Professional staff members live in the residence hall and upper-class students who reside on the floor and work as resident assistants are available to assist residents with concerns. All university residence halls are smoke-free.

All students living on campus are required to purchase a 19, 14, 10 or 175 block meal plan. The university has adopted a food court approach to dining. The dining service offers 19, 14, 10, 5, 175 block, 50 block or all flex meal plans for all students living off campus. Students will be able to use flex dollars for additional meals at the various locations. Flex-dollars are a part of the charge for meal plans.

Health Services

Students enrolling at the university must submit a completed Medical History Report prior to the start of the fall semester. This information must be completed by a physician, along with immunization data, and sent to the Glennon Health Services Center. Students may not enroll or attend classes without a completed form. Glennon Health Service provides outpatient consultation for students experiencing health difficulties. Staff members are available Monday through Friday between the hours of 8 a.m. and 4 p.m. All students will be charged a health service fee whether or not the services offered on the campus are utilized. Students are strongly encouraged to have some form of health insurance. The university does not provide any medical insurance coverage to students.

University Counseling Services

University Counseling Services is a component of the Department of Academic Development and Counseling. Counseling is provided to students with personal, emotional or academic adjustment concerns. Professional counselors assist students with questions about achievement, educational progress, interpersonal relationships, self-image, social skills or other potentially stressful or emotionally disturbing experiences. Services are provided daily during regular working hours. Students may be referred to off-campus agencies and private practitioners when desired or needed for more lengthy care.

The counseling center is approved by International Association of Counseling Services (IACS) Board of Accreditation.

Cultural Diversity Concerns

Because of the university's mission to enhance multiculturalism, many students from a variety of backgrounds are represented at LHU. The Director of Human and Cultural Diversity works with students from all cultures to create an environment that recognizes the value of diversity. The university strives to cultivate a climate that is free of bias and prejudice.

Intercollegiate Athletics

The university is a National Collegiate Athletic Association (NCAA) Division II competitor in 16 intercollegiate sports programs for men and women; the field hockey and wrestling programs are Division I. Programs for women athletes include basketball, cross-country, field hockey, lacrosse, soccer, softball, swimming, track and field, and volleyball. Men's sports include baseball, basketball, cross-country, football, soccer, track and field, and wrestling.

LHU provides grants-in-aid to outstanding student-athletes in accordance with available funding. The Bald Eagle Athletic Committee of the LHU Foundation assists male and female athletes with their educational expenses. The amount of aid available varies from program to program and within NCAA limitations. The individual sport program works to provide the aid and is limited to the amount of money it raises.

Student Activities

Leadership opportunities open many avenues for experiencing new ideas and making new friends. The clubs and organizations that are available for student participation originate from student interests. There are many cultural events including concerts, comedians, entertainers, and speakers that are all part of the educational process. Students play a vital part in the governance of the university as representatives on most institutional committees. Experiences in decision-making bodies, leadership roles in clubs and participation in Greek organizations, as well as opportunities to learn to help others and deal with others, are valued parts of the

education students receive in college. This preparation complements academic endeavors and enhances the total learning experience.

MountainServe Center for Global Citizenship

LEARNING BY SERVING WHERE THE GROUND IS UNEVEN

LHU has credit and non-credit bearing opportunities for graduate and undergraduate students to engage in service-learning. The students serving in these places and partnerships engage in these initiatives for a number of reasons, often blurring the lines between services performed for classroom learning, thesis research, scholarship requirements, clinical skills building, and personal commitment. This education and the development of global citizen scholars are too important to be contained by a single classroom.

The future of our common humanity depends on how well students learn the lessons our places are teaching them; whether those places are in the Northern or Central Appalachians, the Sierra Madre Occidental, the High Atlas or the profoundly changed landscape of the Mississippi and Louisiana Gulf Coast. MountainServe invites students to come and join in serving, learning and listening to the stories and lessons that come to our students from places where the ground is incredibly uneven.

MountainServe offers students individual counseling for a service placement, a wiki page for facilitating communication between students and community partners, mentoring to student groups interested in performing community service, and service-learning programs during school breaks with domestic and global partner sites. Students may also get involved in more sustained forms of service through participation in one of our many service programs such as AmeriCorps, the community based Federal Work Study Program, and the Community Tutoring Program.

For more information we invite students to visit the MountainServe office located in 103 Raub Hall to speak to the director, Ms. Anne-Marie Turnage, or contact MountainServe at either (570) 484-2498 or www.lhupvolunteer.wetpaint.com.

Student Government

All students are members of the Student Government Association, and all have a role in the election of officers and representatives. This primary student governing body proposes allocations of activity fees for the operation of intercollegiate athletics, clubs, theatre groups, musical groups, intramurals, and recreational activities.

Career Services

Career Services is an integral part of the university's educational program and focuses on the relationship between self, education and careers. It promotes the concept that career development is an ongoing, lifelong process, which incorporates self-assessment and career awareness. Resources and programs are provided to help students explore, select and pursue meaningful careers that are consistent with their interests, abilities and values. Individual counseling is available to assist students with the career planning process, as well as FOCUS, a web-based career guidance and information system. Group and individual instruction is offered on career implementation skills such as resume writing, interviewing and job searching. The office also maintains a career library, with additional information and resources available 24/7 through the Career Services homepage, www.lhup.edu/careerservices.

Veterans

The university is accredited to offer education to veterans as authorized under the provisions of Title 38, United States Code, Section 3675. The university cooperates with the Veterans Administration in making available curricula for those desiring to enroll in programs of study leading to the following degrees: Associate of Science; Bachelor of Arts; Bachelor of Fine Arts in Music; Bachelor of Science; Bachelor of Science in Education; Bachelor of Science in Health and Physical Education; Bachelor of Science in Health Sciences; Bachelor of Science in Recreation Management; Master of Health Science; Master of Education in Teaching and Learning; and Master of Education in Alternative Education. Credits for educational experiences earned while in the armed services may be granted by the university in accordance with the policies of the Board of Governors of the State System of Higher Education and regulations of the American Council of Education. Further information may be obtained from the "Service Members Opportunity Colleges (SOC) Guide." The Vice President for Academic Affairs or his/her designee evaluates military experiences upon receipt of transcripts or separation qualification records. All evaluations are tentative until a student has been in residence for one semester. Student Financial Services provides counseling and assistance in financial matters for veterans.

New Student Orientation Programs

Introducing students and their parents to the college experience is one of the most important programs provided by the Division of Student Affairs. A day and a half summer program is held during the third week in June. New students and their parents are strongly encouraged to attend. Fall and Spring Semester programs are conducted at the beginning of each academic semester. Student participation in these programs is most beneficial and helps students adjust to college living.

Educational Opportunity Program

LHU's Educational Opportunity Program (EOP), partially funded by the Pennsylvania ACT 101/Higher Education Equal Opportunity Program state grant, assists students whose educational and economic backgrounds impair their initial ability to pursue higher education successfully. The faculty and staff of the ACT 101 Program provide ongoing professional and peer counseling, study skills instruction and tutorial services.

The summer component provides credit-bearing instruction in writing, learning strategies, reading, and other communication skills. Participating freshmen who successfully complete the summer requirements are enrolled for the regular academic year. Prospective students interested in the EOP Summer Session should contact the Act 101 Program Director for more information. Summer EOP students should meet ACT 101 guidelines established by the Pennsylvania Department of Education (PDE) which include residency requirements, income guidelines and academic criteria to be met through high school rank, high school grade point average and an average score on the Scholastic Aptitude Test (SAT) or its equivalent.

Tutoring is provided at no charge and is available to all students in most basic subject areas. Students in their first two years of study are encouraged to arrange tutorial assistance during the early part of each semester if they anticipate or encounter difficulty with course work. Students in the Educational Opportunity Program (EOP) may be required to use tutorial services to remain in the program.

Counseling services provided by the Educational Opportunity Program render professional support to students, particularly those who are in their first two years at the university. These services help EOP students deal with academic and personal concerns such as time management, stress management, and conflict

resolution. Peer counselors provided to freshmen EOP students help to facilitate their adjustment to college life and the university environment.

Tutorial Services

The Tutorial Center provides peer tutoring for students who wish to participate in small tutorial study groups for selected 100 and 200 level courses. The study group facilitator is a qualified and trained peer tutor. Group participants are required to meet at least once a week. There is also an additional optional meeting time for those students who need more assistance. The purpose of this service is to increase the probability of academic success for each student participant. Group tutoring can provide clarification of concepts, theories, and ideas presented in class or textbooks, improvement of study skills, and development of a confident, positive self-image as a student who can succeed academically. Group tutoring is viewed as a collaborative learning experience between the peer tutor and members of the group receiving tutoring. Students are encouraged to seek tutorial help before they experience or anticipate serious difficulties in their course work.

If students would like to participate in group tutoring, they are required to attend the weekly group sessions or they forfeit tutoring privileges for that class. Students interested in tutoring in mathematics or writing are to go to the Mathematics Tutoring Center or Writing Center. The Tutorial Center is an integral component of the Educational Opportunity Program and is open to all students at the university.

Student Support Services Program

The U.S. Department of Education funds a grant which provides services to first generation college students from low-income families, and other eligibility guidelines. First-year students are the focus of TRiO services, which are available to them throughout their enrollment at Lock Haven University. To be eligible, students must permanently reside in the United States and meet one of the following requirements:

- Be a first-generation college student (neither parent or guardian received a bachelor's degree)
- Have limited income, according to federal guidelines
- Have a documented disability
- Have documented academic need.

Upon acceptance to LHU, students will be mailed an application for the SSS program. After the application has been submitted and reviewed, students will be contacted regarding its status.

SSS offers a variety of services including both academic and extra-curricular opportunities, including:

- Writing Assistance
- First-Year Student Success Course
- Learning Strategies Course
- Book Loan Program
- Peer Mentoring
- Grant-in-Aid Scholarships
- Tutoring and Supplemental Instruction
- Financial Literacy
- Cultural/Educational Enrichment Activities

Students who are selected for the SSS program gain valuable access to university life skills. The transition to higher education is often difficult and confusing. As a program participant, a student is offered additional

resources that promote success. Faculty and staff from SSS are involved in teaching, consulting, and advising to address student needs.

The Writing Center

The Writing Center provides work space, computers, and support for students who wish to improve their writing skills. Staffed by student writing consultants and an English faculty director, the Center offers individualized, drop-in assistance with papers from any course in any format, whether electronic or print. Students receive assistance at any phase of the writing process, including planning, organizing, developing, revising, and editing. Additional writing assistance can be gained through use of an on-site library of self-instructional materials or by visiting our website at www.lhup.edu/writingcenter. The website offers an online tutoring option for those who cannot make it physically to the Center.

The Mathematics Tutoring Center

The Mathematics Tutoring Center offers services to students seeking improvement in their mathematics skills. The Center, along with the Mathematics Department, provides free walk-in tutoring throughout the week and school year. The tutoring schedule can be located at <http://www.lhup.edu/mathematics/tutoring.htm>. Small group study sessions are also scheduled to provide coursework support to students. Additionally, the center administers the LHU mathematics placement exam for students with follow-up explanation provided by the center director, Dr. Denine Burkett. The Center is located in Robinson Hall.

The SMaRT Center (Science and Mathematics Resource and Technology Center)

The SMaRT Center is a resource center for: education majors (science, mathematics, middle level/elementary education, mathematics and science majors, and university faculty). The purpose of the center is to provide a facility for students, faculty and teachers to collaborate on research projects and on the improvement of the teaching and learning of mathematics and science. The center is equipped with: computers, mathematical software (Minitab, Mathematics, Geometer Sketchpad), teaching manipulatives (attribute blocks, geoboards, base-10 blocks, geometric solids, mathematics puzzles and games), textbooks for lesson plans and unit plans, Smart board. The materials in the center can be borrowed for classroom teaching. Those interested in borrowing materials should contact Dr. Denine Burkett directly at dburkett@lhup.edu. The center also sponsors seminars and teacher in-service workshops. The center is located in Robinson Hall.

Disability Services

Information about Disability Services can be found on the web at http://www.lhup.edu/disability_services/.

Assessment

Students who are undecided about an academic major are encouraged to use the testing service as one possible means to identify a course of study.

Library Services

The LHU Libraries provide print, media, and electronic resources to meet the information needs of the LHU community. Librarians at Stevenson Library on the main campus and at the Clearfield Campus Library provide

reference assistance and teach library instruction classes in collaboration with classroom faculty. Interlibrary Loan services provide research materials from other libraries.

The LHU Libraries website at <http://www.lhup.edu/library> provides links to extensive online journal and book collections that can be accessed at any time, using a campus ID and password. The website also enables students to chat, email, or use SMS to text questions to a librarian. The library catalog lists the over 335,000 volumes owned by the libraries.

In addition to scholarly books, journals, and video recordings, the libraries provide small leisure reading collections of books and magazines and a selection of feature films on DVD.

Desktop computers and laptops are available for student use. Wireless internet is available throughout both libraries. The top floor of Stevenson Library is reserved for quiet study. A study room on the main floor is available 24 hours. Following construction in summer 2011, the second floor of Stevenson Library holds the new Stephanie A. Wollock Learning Commons, featuring the Schantz Tutorial Center and the University Writing Center. The University Archive and the Helen Burgess Terrill Archive Treasury Room are also on the second floor. Call 670-484-2309 for the Stevenson Library main desk or 814-768-3410 for the Clearfield Library main desk.

Media Services

The university, through the Media Services desk in Stevenson Library, provides a wide array of media equipment ranging from digital cameras and camcorders to multimedia computer workstations capable of editing video and audio files. Similar services, on a smaller scale, are also available at the Clearfield Campus.

A standard selection of equipment, including DVD players, televisions, camcorders, microphones, and projectors are available. The library has educational films and classic feature films on DVD. Sound recordings are available on CD and LP. To use equipment in the library or to borrow circulating equipment and resources, contact the Media Services Desk on the ground floor of Stevenson Library or call 570-484-2228. At Clearfield, call 814-768-3410.

Information Technology

Each of our campus buildings and residence halls is connected to the LHUP Network (LHUPnet), a high-speed fiber optic network. Student computer laboratories are located in all residence halls and most academic classroom buildings. More than 500 network-attached computers have access to the broad range of information resources available on the campus network. These include electronic mail, file sharing, administrative systems, specialized academic applications, programming languages, and the Keystone Library Network as well as the World Wide Web and Internet. All LHU students receive electronic mail and network access privileges to correspond with their advisers, professors and other students. Electronic mail forms an important communication means for students who are a part of our international exchange program.

The LHUPnet is linked to the Pennsylvania State System of Higher Education Network (SSHENet) and the Internet, allowing connections to the SSHE Keystone Library Network and many other available services worldwide. Potential students can receive information from our website (<http://www.lhup.edu>), as well as apply for admission directly online.

Distance learning technology links the main campus with the Clearfield Campus, as well as with other compatible video sites around the world. Registration for classes is done on-line, eliminating tedious manual processes formerly associated with registration.

All incoming freshmen and transfer students are required to have a notebook computer.

Student Disciplinary Guidelines

Guidelines for student discipline have been established that are in accordance with federal, state and local laws. The university has adopted the American Association of State Colleges and Universities standards for a drug and alcohol free environment, and it is making every effort to apply these standards to our campus. The university is also committed to providing a safe campus environment for its students, faculty and staff. All university regulations governing academic, social and behavioral standards appear in the Student Handbook.

Students must meet all financial obligations to the university before they can register for courses in any semester. The university reserves the right to cancel a student's registration if financial obligations are not met.

Involuntary Leave of Absence

The purposes and objectives of the university include establishing an environment that promotes individual well-being. Occasionally, a student may experience medical and/or psychological difficulties that interfere with academic and personal progress. An involuntary leave of absence occurs in those cases where psychological and/or medical evaluation indicate a necessity for a student to withdraw from the university but the student refuses to do so. The Vice President for Student Affairs will determine, after consultation with professionals and following university procedures, that such action is appropriate and will forward a letter to the Registrar's Office after notifying the student.

When evidence is presented to the Vice President for Student Affairs that the health condition has been satisfactorily resolved, readmission to the university may be sought. Readmission to the university after an involuntary leave of absence will be based upon the Vice President's recommendation and other existing conditions for re-enrollment.

Withdrawal From Courses or the University – See Academic Information section of the catalog, Withdrawal from Courses and Withdrawal Policy, from the university

ACADEMIC INFORMATION

www.lhup.edu/registrar

Academic Advising/Advisers

Each student is assigned a faculty academic adviser. Students who have declared a major have as their adviser a faculty member within that discipline. A faculty member within the Department of Academic Development and Counseling coordinates the advising of Exploratory Studies (undecided) students. Exploratory Studies students are urged to explore academic programs at the university and their personal career and life goals. The Coordinator of Advising of Exploratory Studies Students can assist individual students and advisers with

this process by providing counseling and advising, various assessment tools and resources, seminars, workshops, and classes and software programs.

Each student's relationship with her or his academic adviser is important. Through discussion with an academic adviser and the use of services provided by the Office for Advising of Exploratory Studies Students, a student is better able to:

- Clarify academic, life and career goals;
- Understand the nature and purpose of higher education;
- Gain information about educational options, requirements, policies and procedures;
- Plan a program of study consistent with interests and abilities;
- Select and schedule appropriate courses;
- Integrate institutional educational objectives.

Academic advisers attempt to make information about academic programs readily available to students and to assist them in working out solutions to academic problems. Students are advised in course selection, schedule development and clarification of educational goals. Ultimately, students are responsible for their academic decisions.

Academic Amnesty

Students returning to Lock Haven University after a minimum two-year interruption in matriculation have two options available concerning their previous academic record at the university. For either option the student's past academic record remains on the transcript, and the student receives full credit for courses taken.

Option I Previously earned quality points will continue to be calculated in the student's grade point average.

Option II Previously earned quality points will not be calculated in the student's grade-point average after readmission.

In addition, readmitted students must meet the university's requirements as well as the individual departmental and certification requirements that are in place the year in which they return. Credit for courses already taken may be accepted toward graduation, but, at the discretion of individual departments, students may be required to repeat those courses in which significant changes in content have occurred. Specific questions concerning these options should be addressed to the Registrar's Office.

Academic Honesty Policy

PREAMBLE

Lock Haven University endeavors to promote an appreciation of the values of fairness and intellectual honesty and to establish a climate of academic freedom within which students learn. Any breach of trust may undermine academic freedom and diminish the integrity of the university's mission. The university has established means of discouraging academic dishonesty and has established procedures to protect every student's right to fair treatment and due process.

Instructors share the expectation that students demonstrate their mastery of subject matter in an honorable and straightforward manner. Violations of ethical norms are very serious.

POLICY

Lock Haven University forbids academic dishonesty. Students who commit acts of academic dishonesty shall be subject to the sanctions outlined below. This policy applies to all students registered at Lock Haven University during or after their enrollment. Students may contest only (1) whether or not academic dishonesty has occurred or (2) whether a penalty was given capriciously.

RESPONSIBILITIES OF INSTRUCTOR

Instructors are encouraged to include a statement regarding academic dishonesty in the course outline. Faculty members have the right to investigate any circumstances that may constitute violations of academic honesty.

RESPONSIBILITIES OF STUDENTS

Students who do not attend the first day of class must seek out a copy of the course outline. Students must meet the time deadlines outlined in this policy or forfeit the opportunity to appeal the decision.

As members of the university community, students share the responsibility for promoting and maintaining academic integrity. A student who becomes aware of an act of academic dishonesty by another student should bring this information to the attention of the instructor.

Either the instructor or student may initiate a charge of academic dishonesty.

DEFINITIONS

An act of academic dishonesty involves fraud, deceit, or misrepresentation in attempting to obtain academic credit or influence the grading process by means unauthorized by the course instructor or inconsistent with university policy. Academic honesty is breached when a student willfully gives or receives assistance not authorized in course work, and/or who intentionally fails to adhere to, or assists others in failing to adhere to, the university policy on academic honesty.

Academic dishonesty includes, but is not limited, to the following:

- 1. Plagiarism.** The definition of plagiarism for purposes of Lock Haven University policy is as follows: At one extreme, plagiarism is the word-for-word copying of another's writing without enclosing the copied passage in quotation marks and identifying it in a proper citation. At the other end of the spectrum, plagiarism is the casual inclusion of a particular idea or term which one has obtained from another's writing or speaking, and which is presented as one's own opinion or idea. Within the broad spectrum, plagiarism may include weaving into the text random writings of others without proper identification of the sources. It is also the paraphrased and abbreviated restatement of the analysis and conclusions of another, without the due acknowledgment of the author's text as the basis for recapitulation. Plagiarism also includes, but is not limited to, "the wrongful appropriation, in whole or part, of another's literary, artistic, musical, mechanical, technical, or computer program composition."
- 2.** Receiving and/or providing unauthorized assistance for and during examinations.
- 3.** Using unauthorized notes, materials and devices during examinations.
- 4.** Presenting material research prepared by others, including commercial services, as one's own work in fulfilling course requirements.
- 5.** Collusion with others in attempting to circumvent course requirements.
- 6.** Making fraudulent statements or claims to gain academic credit or influence grading.
- 7.** Attempting to bribe faculty or other university personnel in order to gain academic advantage.

8. Securing or possessing course examination material prior to the administration of the examination from the instructor or proctor without the consent of the instructor.
9. Taking an examination or course on another's behalf or arranging for another to take an examination or course on one's behalf.
10. Altering transcripts and misusing other records and identification material.
11. Intentionally falsifying or arbitrarily inventing research and data to be presented as an academic endeavor.

PROCEDURE FOR HANDLING AN INCIDENT INFORMALLY

When an instructor observes a student engaging in an act of academic dishonesty in the classroom, such as cheating on a test, the instructor has the authority to confiscate the materials at that time and place, and discreetly inform the student that the student is required to make an appointment with the instructor to discuss the alleged incident. During that meeting between instructor and student, the instructor shall inform the student of the accusations against him or her. The accuser shall have thirty calendar days to notify the student of the allegations. In the event an incident occurs at the end of the spring semester, the thirty-day notification may apply to the following fall semester, with the consensus of all parties. If no consensus exists, the Vice President for Academic Affairs or designee will decide whether or not to carry over the action.

If an instructor believes a student has engaged in an academically dishonest act outside the classroom, such as plagiarism, then the instructor shall so inform the student in a discreet, confidential setting, such as the instructor's office.

In cases of academic dishonesty, the instructor may elect to implement a sanction that can be given within the confines of the course. If that sanction is not acceptable to the student, or if an instructor feels that more severe sanctions should be implemented, either party may initiate the procedures detailed below. In most instances, the final decision on a grade rests only with the instructor.

Should the student feel that the sanction is not acceptable, he/she may implement the following process:

- The student first notifies the instructor of his or her dissatisfaction with the sanction by arranging a meeting with the instructor in a discreet, confidential setting. This must be done within ten days of the implementation of the sanction; both the student and the instructor may appear with an adviser.
- If dissatisfied with the instructor's response, the student should submit in writing a statement of his or her dissatisfaction to the department chairperson and to the faculty member. The chairperson may attempt to work out a solution acceptable to both the student and the instructor.
- If the chairperson suggests a solution, the proposed solution should be discussed first with the instructor, who must approve it prior to the solution being offered to the student.
- If the instructor will not accept the chairperson's proposal, the chairperson then informs the student that no resolution is possible.
- If a student is dissatisfied with the department chairperson's response, the student must:
 - a. initiate the formal process;
 - b. give oral notification to the instructor of his/her dissatisfaction with the solution; and
 - c. submit a written statement about his/her dissatisfaction to the department chairperson.
- Notification must occur within ten days of the chairperson's response.

Should the instructor feel that an act of academic dishonesty warrants a more severe sanction than can be given within the confines of the course, the instructor retains the right to submit the evidence to the Vice President for Academic Affairs or a designee with recommendations for further sanctions. The instructor must

also inform the student of his/her action in a discreet, confidential setting such as the instructor's office.

FORMAL RESOLUTION PROCESS

The formal process may be initiated by either the instructor or the student by submitting in writing a complaint to the Vice President for Academic Affairs. Once the Vice President for Academic Affairs or designee determines the actual charges, the Vice President for Academic Affairs or designee may not be involved in any aspect of the resolution process or an appeal. Once the Vice President for Academic Affairs or designee initiates the formal proceedings, the student and instructor shall be informed in writing of the alleged violation. Both the student and the instructor may be assisted by a representative or an adviser who may be an attorney. If an attorney is present, he/she may not argue the case. The student shall be given, by personal delivery or by certified mail to the last known address, written notification of the date, time, place of the hearing and the alleged violation. Such notification shall not occur more than twenty-one days from the start of the formal process. The student will be given the right to review, prior to the hearing, any written material that will be used against the student at the hearing.

The hearing will be an administrative hearing with the hearing officer appointed by the Vice President for Academic Affairs. The hearing officer is empowered with the right and obligation of judging the evidence and implementing a sanction if so warranted. The student has the right to cross examination and the right to present a defense. This cross examination and defense must be confined to the issue of whether or not academic dishonesty has occurred. The hearing must be recorded and a determination must be made as to whether a violation of this policy has occurred. The results of the hearing must be sent to the student and instructor in writing within five days of the termination of the hearing.

Students shall be advised that failure to attend the hearing, except for "good cause," may result in sanctions being imposed and the university is under no obligation to reschedule a hearing.

AN APPEAL

If the student is dissatisfied with the determination of the hearing officer, an appeal shall be made in writing to the Vice President of Academic Affairs or designee within ten days after the student is notified of the results of the administrative hearing. Filing an appeal does not automatically result in a new hearing. The Vice President or designee shall refer the appeal to the University Academic Appeals Board.

The Academic Appeals Board shall consist of a College Dean not previously involved in the resolution process or a substitute mutually agreed to by the instructor and the accused. The board shall include two faculty members chosen by APSCUF, as well as two undergraduate students appointed by the Student Cooperative Council, Inc. Terms of appointment will be for one academic year. The College Dean or substitute shall serve as the chairperson.

The Academic Appeals Board shall review all evidence pertaining to (1) the fact of whether or not academic dishonesty has occurred or (2) whether or not the penalty was given capriciously. The board shall determine whether or not due process was given in reaching the decision, or based upon the introduction of new evidence, request a new hearing by a different hearing officer designated by the Vice President for Academic Affairs. Only new evidence with direct bearing to issues (1) and (2) above may be introduced to the Academic Appeals Board. No disciplinary action will be taken before an appeal is decided unless the President determines that the integrity of the academic process requires immediate implementation. The chairperson and the board shall render a written decision to the student and instructor within ten days of receipt of an

appeal. The decision of the Academic Appeals Board shall be final.

For the purposes of this policy, all time limits shall be construed to mean class days within the academic year. Summer school may constitute part of the academic year. Infractions occurring at the end of the spring semester or during the summer terms may be carried over until the next fall semester, with the consensus of all parties. If no consensus exists, the Vice President for Academic Affairs or designee will decide whether or not to carry over the action.

SANCTIONS

The following is a list of the range of sanctions that may be imposed against a student found to have committed acts of academic dishonesty:

Sanctions which may be given within the confines of the course:

- **Grade Penalty:** An instructor's refusal to correct an assignment or test or an instructor's requiring the rewriting of an assignment or the retaking of a test for reasons related to academic dishonesty.
- **Grade Reduction:** If a student is found to have committed an act of academic dishonesty, then a grade for a particular unit of work or for the entire course may be reduced. This includes a grade of "E".
- **Imposition of a failing "E" grade:** A student who has withdrawn from a course in which he/she committed an act of academic dishonesty may receive an "E" for the course.

Instructors are encouraged to notify the Vice President for Academic Affairs when a sanction is given within the confines of the course. The student must be notified when such action is taken. Once a sanction is given within the confines of a course and there is no formal process initiated, the sanction will be put in place and no other action will be taken by the student or faculty member.

Sanctions which may result from Formal Resolution Process:

- **Official Reprimand:** An official letter reprimanding the student for the commission of an offense may be placed in the student's official file for a specified period of time.
- **Suspension:** If a student is found to have committed an act of academic dishonesty, the student may be suspended from the university for a specific period of time unless specific and significant mitigating factors are present.
- **Dismissal:** Permanent removal of the student from enrollment at the university may be imposed for repeated violations, cumulative violations, or egregious first offenses.

DEFINITION OF TERMS:

university - the community of faculty, staff and students at Lock Haven University

instructor - any person employed by the university who holds academic rank or performs teaching duties

staff - any person employed by the university who is not a faculty member or an instructor

class days - days upon which classes in general are held during the academic year (normally five days a week)

designee - any person appointed by the Vice President for Academic Affairs to represent the university. This person may not be a member of the faculty

Academic Passport

If you are ready to transfer to LHU from a Pennsylvania State System university (PASSHE) or a Pennsylvania Community College, the [Academic Passport](#) ensures that a maximum number of your credits will transfer.

To be eligible for an [Academic Passport](#), you must have a grade point average of at least 2.0. If you are a community college student with an Associate of Arts or Associate of Science degree, you must have earned at least 30 credits in liberal arts courses. Remedial, developmental, or study skills courses do not transfer under the Academic Passport.

An Academic Passport, which will assure the holder entry into LHU, will be awarded to students who have earned either an Associate of Arts or an Associate of Science degree from any Pennsylvania public community college, or who have earned at least 12 credits from another PASSHE school. To be eligible for the passport, a community college student must have a grade point average of at least 2.0 and earned at least 30 of their credits in liberal arts courses at a Pennsylvania public community college. State System students must have at least 12 credits with a 2.0 GPA to qualify for the passport. Students seeking detailed information about transferring to LHU are urged to contact the transfer coordinator at their community college or the LHU Office of Admissions.

Academic Standing

Good standing for undergraduate students will be set at 2.00 GPA.

Good standing for graduate students will be set at 3.00 GPA.

Advanced Placement (AP)

Lock Haven University will accept any Advanced Placement courses for credit with a score of 3 or better on the College Board Advanced Placement examination. In most cases, courses will transfer as a General Education Requirement or Elective, but for more specific information on the awarding of credit, please visit the [Registrar's Office website](#) and select "Credit for AP Exams."

The various subject examinations offered through the College Board's Advanced Placement Program (AP) are approved by the faculty for the award of credit based on a test score of 3 or higher. There is no limit to the number of courses for which AP may award credit. Consequently, in some cases entering students qualified for advanced standing may be eligible for placement at sophomore level. No letter grades are recorded, only credit hours for the corresponding university catalog course title and number.

Official score reports for the AP examination sent directly from the College Board testing service are required.

http://www.lhup.edu/registrar/transfer_information/CREDIT_FOR_AP_EXAMS.pdf

Agreement, Letters of and Articulation

Lock Haven University has the following Letters of Agreement with other colleges and universities. See the LHU web page (http://www.lhup.edu/registrar/transfer_information.htm) for an up-to-date list and to review the agreements for details.

East Stroudsburg University	Program/Early Admission	Graduate Program in Clinical Exercise
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		Science
Gannon University	Program/Early Admission	Graduate Program in Doctor of Physical Therapy
Gannon University	3+3 Program	Doctor of Physical Therapy Program
SUNY Upstate Medical University	Undergraduate Program to Graduate Program	Selected science programs

Lock Haven University has the following Articulation Agreements with other colleges and universities. See the university web page (http://www.lhup.edu/registrar/transfer_information.htm) for an up-to-date list and to review the agreements for details.

Northampton Community College	Early Childhood Education to PreK-4
Penn College	Early Childhood Education to PreK-4
Reading Area Community College	Science to Biology or Biology/Chemistry or minor in Nanotechnology
Tompkins Cortland Community College	Outdoor Recreation Management

Lock Haven University follows the Pennsylvania State System of Higher Education (PASSHE) Academic Passport and Student Transfer Policy (<http://www.passhe.edu/inside/bog/pol/Policies/Policy%201999-01.pdf>).

Lock Haven University is a participant in Pennsylvania state-wide transfer and articulation. More information can be found at <http://www.patrac.org/>.

Army Reserve Officers Training Corps (ROTC)

<http://www.lhup.edu/ROTC1/>

The Army Reserve Officers Training Program provides the world's best leadership training while preparing qualified young men and women for service as commissioned officers in the United States Army. Army ROTC attains this objective by providing leadership training to students while they pursue their college academic studies.

The program offers a no obligation basic course to qualified freshman and sophomore students and an advanced course to eligible students during their junior and senior years. Advanced course students also receive \$350-400 per month tax free subsistence for 10 months per school year.

Graduation from LHU and completion of the advanced course leads to a commission as a Second Lieutenant in the United States Army Active Duty, National Guard or Reserves. Scholarships which pay tuition, mandatory fees, \$300 per semester for books, and \$250-400 per month subsistence allowances are available to select qualified students.

Articulation, Agreements and Pennsylvania State-wide

See "Agreement, Letters of and Articulation"

Auditing a Course

In special instances, a student may audit a course if a seat is available in the course. The instructor will provide the student with the course requirements needed to be awarded an audit (AU) grade at the conclusion of the semester. If successful completion of the audit requirements is not met, the course will be administratively

withdrawn as of the end of the semester. A withdrawn grade (W) will appear on the student's academic record.

An audited course provides no academic credit nor may it be changed later to a credit grade. In order to audit a course, the student must first enroll in the course and then request approval from the Registrar.

The deadline to declare audit for a course is the same as that to declare pass-fail: twenty-one days into the semester (prorated for other sessions).

Criteria for auditing:

- There must be space available in the class.
- The student is not required to take an active part in class exercises or take exams.
- There is no cost for auditing a course provided the student's total credits are between 12 semester hours and 18 semester hours.
- The student must attend 75% of the class periods to receive the 'AU' grade; otherwise a 'W' is given.
- Approval is given by the Registrar.

Class Meeting Times

http://www.lhup.edu/registrar/class_meeting_schedule.htm

Regular/Standard Class Meeting Times

Some classes meet at times other than the standard time below. Be sure to review the schedule of classes or your student schedule for accurate class meeting times.

Monday - Wednesday - Friday		Tuesday - Thursday
8:00 - 8:50 AM		8:00 - 9:15 AM
9:05 - 9:55 AM		9:30 - 10:45 AM
10:10 - 11:00 AM		11:00 - 12:15 PM
11:15 - 12:05 PM		2:10 - 3:25 PM
12:20 - 1:10 PM		3:40 - 4:55 PM
1:25 - 2:15 PM		5:10 - 6:25 PM
2:30 - 3:20 PM		
3:35 - 4:25 PM		
4:40 - 5:30 PM		
Monday - Wednesday		Single Evening Meeting
3:35 - 4:50 PM		5:05 - 7:55 PM
5:05 - 6:20 PM		6:30 - 9:20 PM

Condensed Schedule ~ Convocation & Martin Luther King, Jr. Celebration Days

For Convocation & Martin Luther King, Jr. Celebration Days, the following condensed schedule will be used.

REGULAR MEETING TIME	SPECIAL MEETING TIME
8:00 - 8:50 AM	8:00 - 8:40 AM
9:05 - 9:55 AM	8:55 - 9:35 AM
10:10 - 11:00 AM	9:50 - 10:30 AM
11:15 - 12:05 PM	10:45 - 11:25 AM
12:20 - 1:10 PM	11:40 - 12:20 PM
1:25 - 2:15 PM	12:35 - 1:15 PM
	<i>PROGRAM 1:30 - 2:45 PM</i>
2:30 - 3:20 PM	3:15 - 3:55 PM
3:35 - 4:25 PM	4:10 - 4:50 PM
3:35 - 4:50 PM	4:10 - 5:10 PM
4:40 - 5:30 PM	5:05 - 5:45 PM
4:40 - 5:55 PM	5:05 - 6:05 PM
5:05 - 6:20 PM	5:25 - 6:25 PM
Other evening classes	Normal class period

Compressed Schedule ~ Inclement Weather

For a delayed opening for academic instruction, the following compressed schedule will be used.

Monday - Wednesday - Friday		Tuesday - Thursday	
Regular Time	Adjusted Time	Regular Time	Adjusted Time
8:00 - 8:50 AM	10:00 - 10:40 AM	8:00 - 9:15 AM	10:00 - 11:00 AM
9:05 - 9:55 AM	10:55 - 11:35 AM	9:30 - 10:45 AM	11:15 - 12:15 PM
10:10 - 11:00 AM	11:50 - 12:30 PM	11:00 - 12:15 PM	12:30 - 1:30 PM
11:15 - 12:05 PM	12:45 - 1:25 PM	12:30 - 1:45 PM	1:45 - 2:45 PM
12:20 - 1:10 PM	1:40 - 2:20 PM	2:10 - 3:25 PM	3:00 - 4:00 PM
1:25 - 2:15 PM	2:35 - 3:15 PM	3:40 - 4:55 PM	4:15 - 5:15 PM
2:30 - 3:20 PM	3:30 - 4:10 PM	5:10 - 6:25 PM	5:30 - 6:30 PM
3:35 - 4:25 PM	4:25 - 5:05 PM		
4:40 - 5:30 PM	5:20 - 6:00 PM		
Monday - Wednesday		Single Evening Meeting	
Regular Time	Adjusted Time	Regular Time	Adjusted Time
3:35 - 4:50 PM	4:25 - 5:25 PM	5:05 - 7:55 PM	6:45 - 8:30 PM
5:05 - 6:20 PM	6:15 - 7:15 PM	6:30 - 9:20 PM	6:45 - 8:30 PM

*On days when the compressed schedule is used, all night classes will begin at 6:30 PM.

Class Standing/Classification

Number of credits required for each class level.

0.0 – 29.5 Freshman

30.0 – 59.5 Sophomore

60.0 – 89.5 Junior

90.0+ – Senior

College-Level Examination Program (CLEP)

With the exception of only one General Examination (English Composition) and four subject tests (Business Law, Educational Psychology, College Composition, and Freshman English) offered through the College Board's College-Level Examination Program (CLEP), degree credit may be earned by candidates who achieve a scaled score equivalent to the 50th percentile or higher using current national norms for each test. No letter grades are recorded; rather only credit hours for the corresponding university catalog course title and number.

Bachelor's degree candidates – up to twenty-four semester hours may be earned using CLEP credit.

Associate's degree candidates – up to twelve semester hours may be earned using CLEP credit.

Restrictions applicable to CLEP include no award of credit for a course previously attempted and failed at this university and no award of credit for any General Examination test administered after the student has matriculated at this university, with the single exception of the General Examination in Mathematics.

CLEP may not be taken to replace a failing grade earned at LHU.

CLEP may be earned only by students who have earned less than 30.0 semester hours.

http://www.lhup.edu/registrar/transfer_information/CREDIT_FOR_CLEP_EXAMS.pdf

Continuing Education

In general terms, continuing education at Lock Haven University refers to enrolling in credit courses as a student who has not been formally accepted by the Office of Admissions. The main limitations on enrolling as a continuing education student include a course load limitation (normally no more than 7.0 semester hours) per semester and ineligibility for financial aid.

Course Descriptions

Current course descriptions are available on the web at

http://www.lhup.edu/catalog/Course_Descriptions.pdf; course descriptions available at the time of this publication are included at the end of this document.

Credit by Examination/ Credit for Life Experience

It is possible to earn credit toward graduation by satisfactory completion of examinations in areas where students have had good preparation. Students interested in this procedure should discuss their preparation with the department chairperson in whose area the expertise is claimed. If the chairperson thinks that the applicant has adequate preparation, a faculty member will be assigned to administer a comprehensive

examination. If a student completes an examination successfully, the chairperson recommends through his dean to the Registrar's Office that the specific course in question be entered on the student's record with credit by examination; letter grades are not awarded in this procedure.

Credit by exam is counted as resident credit for graduation.

Credit by examination will be limited to a total of six semester hours throughout a student's academic career. Exceptions to this limit may be reviewed by the Registrar.

Approval for credit by examination is required prior to completing the examination.

The credit by exam fee will be charged at the time of the pre-approval and is nonrefundable regardless of the student's success or failure in receiving the credit.

No credit by examination will be awarded without completing the pre-approval and paying the fee in advance.

Life/work experiential learning can be documented, assessed and evaluated to meet credit-hour requirements in a specified area or to count as program credits toward the fulfillment of degree requirements and will be awarded as credit by exam.

Credit Hours

Credit hours have a special meaning that is distinct from clock hours. Lock Haven University operates on a semester system and awards semester credit hours. Usually, a one-semester-hour course meets for one hour per week for a semester (fifteen weeks). A three-semester-hour course meets for three hours per week, etc. Classes are typically fifty minutes in length. There is considerable variation in the relationship between credit hours and clock hours for special courses, for example, laboratories, internships, and studios.

Students should plan to spend approximately two hours per week studying for each credit hour registered. For instance, a student taking 15 credits should plan to study 30 hours per week.

One credit is earned for each semester hour of collegiate coursework. The usual structure of courses is to meet 150 minutes per week for an entire semester, and following a final exam this results in three (3 semester hours) of credit earned. There are many exceptions to this structure, most involving laboratory and activity courses.

The standard academic course load is 15 to 17 semester hours in one semester. A student doing work of poor quality is asked to reduce the number of hours taken. A student's request for more than 18 semester hours must be requested by use of the [Change of Schedule](#) form.

Dean's List

The Dean's Honor List, prepared at the end of each semester, recognizes those students who have achieved academic distinction. To qualify for the Dean's List, the student must have earned a GPA of at least 3.5 in 12 hours of letter grades.

Students who have an incomplete on their academic record will not be awarded Dean's List. However, when the incomplete grade is changed to the earned letter grade, the record will be reviewed to determine if the criteria have been met and Dean's List can be awarded.

Degree

A degree is an academic title used as an indication of the completion of a course of study. The degree is what is earned upon completion of the requirements for the chosen major, which includes general education.

Ultimate responsibility for the successful completion of the degree lies with the student. The student must know and observe the academic policies and regulations of the university and must meet the requirements for graduation. The student must know the sources of academic information and work closely with an adviser in examining program and course requirements.

While each major has its own individual set of requirements in order to graduate with a degree, the overall requirement for a baccalaureate degree is 120.0 earned hours of work. (Associate and master degrees have varying requirements.)

Bachelor of Arts (BA) vs. Bachelor of Science (BS) Degree

All candidates for a Bachelor of Arts degree must achieve proficiency through level IV (course number 202) of a foreign language. Proficiency shall be demonstrated by successful completion of foreign language IV or, with the approval of the chairperson of the Foreign Languages Department, a course to which level IV is a prerequisite. The Foreign Language Department offers guidance in placing individual students at a level appropriate to their background and ability.

Some Bachelor of Science programs also have a foreign language requirement. BS candidates should consult with their department chairperson or academic adviser to determine if a foreign language is required in their program.

In addition, BA degree programs require a liberal arts seminar in each area of humanities, social science, and science/math. These seminars provide a context to examine inter-relational aspects of knowledge and experience. One seminar in each of the above areas is required of all students majoring in any of the arts and sciences who are candidates for the Bachelor of Arts degree.

Through small group processes, assigned readings, informal conversations, and papers, seminar participants become involved in a cross-disciplinary environment in which each student is encouraged to develop informed insights and perspectives. Seminars focus on elements of history, culture, and science that influence the continuing development of human value systems and endeavors. The substance of a particular seminar includes consideration of the manner in which knowledge is developed and the impact of particular knowledge on contemporary society and on life as it may be experienced in the future. NOTE: All liberal arts seminars carry the course number 328.

Disney College Program

Students must complete the Transfer Credit Approval form to ensure transferability.

Credit for courses taken while participating in the Walt Disney World College Program may be based on the American Council on Education's recommendations or as reviewed by the academic department per the chart below. Course transferability is also based on the grade awarded by Disney College.

Detailed information about the courses can be found at <https://www.acenet.edu/NationalGuide>; choose Walt Disney Co. from the list of organizations.

More information about the Program can be found at https://www.wdwcollegeprogram.com/sap/its/mimes/zh_wdwcp/students/education/edu_collegiate.html.

WDW Course Number	WDW Title	LHU Course Number & Title	LHU Semester Hours (SH)
WALT0010	Disney Advanced Studies in Hospitality Course	MANG179 Business Administration Elective	3.0 sh
WALT0008	Disney College & International Interactive Learning Program	GNED179 General Education Elective	1.0 sh
WALT0013	Disney College & International Program Internship	Review on a case-by-case basis	3.0 sh
WALT0002	Disney Communications Course	SPCH189 General Education Speech Requirement	3.0 sh
WALT0001	Disney Corporate Analysis Course	MANG179 Business Administration Elective	3.0 sh
WALT0011	Disney Corporate Communication Course	SPCH179 Speech Elective	3.0 sh
WALT0012	Disney Creativity and Innovation Course	MANG179 Business Administration Elective	3.0 sh
WALT0003	Disney Experiential Learning	GNED179 General Education Elective	3.0 sh
WALT0004	Disney Hospitality Management Course	MANG179 Business Administration Elective	3.0 sh
WALT0005	Disney Human Resource Management Course	MANG179 Business Administration Elective	3.0 sh
WALT0006	Disney Leadership Speaker's Series	GNED179 General Education Elective	1.0 sh
WALT0009	Disney Marketing You Course	GNED179 General Education Elective	3.0 sh
WALT0007	Disney Organizational Leadership Course	MANG179 Business Administration Elective	3.0 sh

IMPORTANT REMINDERS

1. Prior to participating, students must complete the Transfer Credit Approval Form, http://www.lhup.edu/registrar/transfer_form.htm.
2. Students need to be aware that they are not registered students at LHU during this time even though they may transfer credit. LHU will not be able to verify enrollment for the student for health insurance coverage or for loan deferments.
3. Students need to request to resume studies in order to come back to LHU to continue their academic career, http://www.lhup.edu/registrar/request_to_resume_studies_proces.htm.

Exam Policy

Recognizing that corrected exams can be learning tools, the university accepts as educationally sound policy that faculty make available* to students term papers, tests, and quizzes within two weeks of the date of submission.

Final exams, term papers or project reports will be retained by faculty members for a full semester and made available to students upon request.

Final comprehensive exams are prohibited during the fourteenth week.

*It is the instructor's prerogative either to return work or to allow students to see it.

Exploratory Studies

Students who are undecided about a choice of major are identified as Exploratory Studies at Lock Haven University. Truly undecided students are advised by faculty in the Department of Academic Development and Counseling and other selected faculty. Students who indicate an interest in a specific major on the admissions application and the Exploratory Studies Student Survey are assigned to faculty in that specific major when appropriate.

National research indicates that some form of undecidedness, tentativeness, or uncertainty about choice of major exists for at least three out of four first year college students. A student's decision to be an Exploratory Studies student at Lock Haven University could mean openness to new ideas and suggestions concerning a major and eventually, a career. This perspective can bring very positive experiences during a student's academic career. However, in order to complete requirements for graduation in a timely manner, a student must be intentional about exploring majors. Students are encouraged to declare a major by the time they have earned 24 – 30 credits.

The Exploratory Studies Advising Office and the Department of Academic Development and Counseling can assist students in making the most appropriate choice of major through the following activities, coursework, and services:

- First Year Seminar for Exploratory Studies Students (1-credit course)
- Introduction to Career/Life Planning (2-credit course)
- Developmental academic advising
- Assessment and career counseling
- Academic Majors Fair – September of each academic year

For many entering students, the freshman year provides an opportunity to explore potential life and career goals and examine the relationship between those goals and specific academic programs. If students are undecided or are intending to transfer to some other institution for graduation, they may register as exploratory studies students. Even if undecided, however, students are urged to consider selecting a major. Past experience has shown that many individuals who intend to transfer remain to earn their degrees at LHU. By selecting a major, students can save considerable time and inconvenience should they decide to remain.

Family Educational Rights & Privacy Act (FERPA)

The Family Educational Rights and Privacy Act (FERPA) (20 U.S.C. § 1232g; 34 CFR Part 99) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education.

FERPA gives parents certain rights with respect to their children's education records. When a student reaches the age of 18 or attends a school beyond the high school level, these rights transfer to the student.

- Students have the right to inspect and review their education records maintained by the school. Schools are not required to provide copies of records unless, for reasons such as great distance, it is impossible for students to review the records. Schools may charge a fee for copies.
- Students have the right to request that a school correct records which they believe to be inaccurate or misleading. If the school decides not to amend the record, the student then has the right to a formal hearing. After the hearing, if the school still decides not to amend the record, the student has the right to place a statement with the record setting forth his or her view about the contested information.
- Generally, schools must have written permission from the student in order to release any information from a student's education record.

However, FERPA allows schools to disclose those records, without consent, to the following parties or under the following conditions (34 CFR § 99.31):

- School officials with legitimate educational interest;
- Other schools to which a student is transferring;
- Specified officials for audit or evaluation purposes;
- Appropriate parties in connection with financial aid to a student;
- Organizations conducting certain studies for or on behalf of the school;
- Accrediting organizations;
- To comply with a judicial order or lawfully issued subpoena;
- Appropriate officials in cases of health and safety emergencies; and
- State and local authorities, within a juvenile justice system, pursuant to specific State law.

Schools **may** (schools are not required to disclose, given the situation) disclose, without consent, "directory" information such as a student's name, address, telephone number, date and place of birth, honors and awards, and dates of attendance.

A student may request that any or all of this information not be made publicly available by request to the Office of the Vice President for Student Affairs or to the Registrar's Office.

However, schools must tell students about directory information and allow parents and eligible students a reasonable amount of time to request that the school not disclose directory information about them.

Source: <http://www.ed.gov/policy/gen/guid/fpco/ferpa/index.html>

Additional Information:	LOCK HAVEN UNIVERSITY Contact:
Family Policy Compliance Office U.S. Department of Education 400 Maryland Ave, SW Washington, DC 20202-5901	Dr. Linda Koch Vice President, Student Affairs Sullivan Hall 311 Lock Haven University of PA Lock Haven PA 17745 570-484-2022 lkoch@lhup.edu

Final Exams

The final exam schedule is provided on the Official University Calendar at http://www.lhup.edu/registrar/academic_calendar/index.htm.

Final exams are prohibited during the fourteenth week of the semester.

Early in the semester, a memo is sent to department chairs to request a common night final exam for courses with three or more sections. The night exam schedule runs on the regularly scheduled exam days with evening periods being 6:00-7:50 PM and 8:00-9:50 PM.

Foreign Language Proficiency/Requirement

All candidates for a Bachelor of Arts degree must achieve proficiency through level IV (course number 202) of a foreign language. Proficiency shall be demonstrated by successful completion of foreign language IV or, with the approval of the chairperson of the Foreign Languages Department, a course for which level IV is a prerequisite. The Foreign Language Department offers guidance in placing individual students at a level appropriate to their background and ability.

International students in a BA degree program do not need to complete the foreign language requirement, as English is their second language. The language of their native country satisfies the requirement.

Some Bachelor of Science programs also have a foreign language requirement. BS candidates should consult with their department chairperson or academic adviser to determine if a foreign language is required in their program.

General Education

www.lhup.edu/catalog

General education is a required program of study developed and approved by Lock Haven University faculty to ensure that our students acquire a broad intellectual context for their majors as well as a foundation for the complex and multiple roles they will undertake as citizens of the twenty-first century. As students begin upper-division study, faculty will assume their abilities, based on successful completion of general education courses, to communicate effectively in both written and oral form and demonstrate an appropriate level of numerical literacy.

LHU students, as citizens, will have futures extending beyond service to professions and places of employment. They will have responsibilities as members of a family, community, nation, and world. Increasingly, graduates will be called upon to make informed choices regarding public policy, health care, education, the environment, and technology. While a general education program cannot equip them with information relevant to every situation they will encounter, the university's goal is to provide them with the skills, research tools, modes of inquiry, and knowledge of the arts, humanities, and social and natural sciences that will assist them in making responsible decisions.

In creating a general education program, the faculty makes certain assumptions about the future: on-going advances in technology, rapidly expanding sources of information, growing global interdependence and increasing multicultural interactions, changing natural resources, varying practices in labor and employment, and revised conceptions of the nature of knowledge. Lock Haven University faculty has developed a wide variety of educational experiences that allow students to explore topics from different points of view and to integrate information from various sources with the intent of creating knowledge or forming new perspectives.

The LHU general education program challenges students intellectually, encourages them to raise questions and helps them in establishing the foundation for active and effective participation in an ever-changing world and complex future.

There is a list of courses that meet general education requirements and the overlays near the end of this document (just after Faculty Listing and before Course Descriptions). An up-to-date list is available at <http://www.lhup.edu/catalog/>.

Additional Information About General Education Overlays

Transfer Courses

Transfer courses are not coded if they meet an overlay (i.e. HIST101 meets the multicultural). There are two ways advisers can handle these situations.

1. Between the adviser and the student, it can be understood (perhaps noted in the student's advising file) that the student has courses (transfer courses) that, if taken here at LHU, would meet an overlay. Although not restricted to these courses, typical ones include world history and sociology as multicultural.

OR

2. A course substitution/waiver form can be completed. The form would indicate that the student transferred in a course (the specific course would be noted) and it should meet an overlay. This is then noted as a comment on the degree audit. It will not appear on the student's web general education overlay report.

Grade Appeal Policy

Informal Procedure

If a student disagrees with the final course grade awarded by the instructor, but has no basis for a charge of "clerical or mechanical error in calculation or recording of a grade" or "arbitrary and capricious evaluation," the student should discuss the matter with the instructor, and if unsatisfied, with the department chairperson, and if still unsatisfied, with the dean of the college in which the course was offered. In such cases, the decision of the instructor shall be final.

Formal Procedure

If a student believes that an improper final course grade has been assigned, an appeal may be filed on the following grounds:

1. Clerical or Mechanical Error in Calculation or Recording of a Grade.
2. Arbitrary and Capricious Evaluation: Significant and unwarranted deviation from grading procedures and course outlines set at the beginning of the course (ordinarily during the first week of the course) or a grade assigned arbitrarily and capriciously on the basis of whim, impulse or caprice. The student may not claim arbitrariness and capriciousness if he/she disagrees with the subjective professional evaluation of the instructor.

The following steps must be followed:

1. Consult on an informal basis with the faculty member who gave the final grade.
2. If the faculty member finds in the student's favor, a grade change will be processed at the Registrar's Office.
3. If the faculty member decides that the grade given was correct, the student will be notified in writing by the faculty member within 10 working days. (Reasonable and necessary extensions of time may be granted by the reviewing officer at any point in the process.)
4. If no agreement is reached at Step 1, the student may prepare a written complaint which contains supporting evidence and indicates the desired solution. This complaint must be submitted to the department chairperson* and the faculty member within 20 regular semester class days from the date on which the grade was imposed. The faculty member, the student and the chairperson shall meet together to discuss the complaint within ten working days of the dated complaint. The chairperson may conduct whatever informal investigation seems necessary and should attempt to achieve a negotiated settlement. The chairperson shall notify in writing the student and the faculty member of his/her findings and decision within 10 working days.

* If the complaint is directed against the department chairperson, the written complaint must be submitted to the dean of the college who shall select a senior member of the department to fill the chairperson's role in this procedure.

5. If the student is still unsatisfied, he/she may appeal in writing to the dean of the college where the grade was awarded within 10 working days of the dated response of the department chairperson. The request must be accompanied by a copy of the written complaint.
6. Within 10 working days, the dean shall hear the evidence by each side and may collect further evidence as desirable. Both sides must be given access to such evidence and given the opportunity to rebut it. The dean shall attempt to achieve a negotiated settlement and will notify in writing the student and faculty member of his/her findings and decision within 10 working days.
7. If the student is still dissatisfied, he/she may appeal in writing to the Provost/Vice President for Academic Affairs within 10 working days of the dated response of the dean. The request must be accompanied by a copy of the written complaint.

Within 10 working days, the Provost/Vice President shall hear the evidence by each side and may collect further evidence as desirable. Both sides must be given access to such evidence and given the opportunity to rebut it. The Provost/Vice President shall attempt to achieve a negotiated settlement and will notify in writing the student and faculty member of his/her decision within 10 working days.

If the student is still dissatisfied, he/she may appeal in writing to the President within 10 working days of the dated response of the Provost/Vice President.

The President shall hear the evidence by each side and may collect further evidence as desirable. Both sides must be given access to such evidence and given the opportunity to rebut it.

The President shall take whatever action is felt necessary to restore equity in the situation. This includes the assignment of an equitable letter grade or a W or P where appropriate. The President shall notify in writing the student and the faculty member of his/her findings within 20 working days. The decision of the President shall be final within the university.

Grading

Grades are a reflection of academic performance. Prospective employers and graduate schools consider grades when making decisions about employment or admission. Grades are a record of achievement satisfying learning, interest, application, and motivation.

A quality point is the unit of measurement of the quality of work done by the student. For graduation, students must have to their credit twice as many quality points as they have semester hours, or a 2.0 GPA. Quality points are computed as follows:

Letter Grade	Quality Points Per Credit Hour	Interpretation
A	4.000	Excellent
A-	3.700	
B+	3.300	
B	3.000	Good
B-	2.700	
C+	2.300	
C	2.000	Fair
C-	1.700	
D+	1.300	
D	1.000	Passing
E	.000	Failure
F		Failure*
P		Passed*
CH		Credit w/Honors*
CR		Credit*
NC		No Credit*
INC		Incomplete*
AU		Audit*
W		Withdrawal*
WP		Withdrawal/Passing*
WF		Withdrawal/Failing*

* Does not affect GPA; "passed" indicates a grade of "D" or better.
The GPA is obtained by dividing the total quality points a student has earned at LHU by the total of semester hours attempted or scheduled (less those semester hours taken as pass/fail, repeated, or credit/no credit or transferred).

To compute a grade (or quality) point average for a semester, multiply the value of each grade earned by the credit hours of the course; add up all the products, and divide that sum by the total number of credit hours for the semester.

Example:

Course	Course Credit Hours	Grade	Quality Points (Value of Grade)	Quality Points Earned
ENGL100	3.0	B	3.0	9.0
PSYC100	3.0	C	2.0	6.0
SOCI101	3.0	A	4.0	12.0
BIOL101	3.0	C+	2.3	6.9
ADAC100	1.0	B-	2.7	2.7
TOTALS	13.0			36.6
36.6 quality points divided by 13.0 credit hours = 2.815 (semester GPA)				

Graduation Requirements

Four-year programs of study at LHU lead to the degrees of Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science in Education, and Bachelor of Science.

Students must know and observe the academic policies and regulations of the university and must meet the requirements for graduation. Students must know the sources of academic information and work closely with an adviser in examining program and course requirements.

Teacher education majors must have a 3.0 GPA, two math courses, two English courses, pass Praxis I and Praxis II and complete an approved course of study of at least 120 semester hours.

International students must apply for United States citizenship in order to be considered for Pennsylvania State Certification.

At least one hundred twenty (120.00) earned hours of work are required for graduation with a bachelor's degree.

Transfer students must earn a minimum of 30 semester hours as resident students in order to receive a degree from LHU.

Graduation Residency Requirements

For Undergraduates:

All first baccalaureate degree students will take at least 30 of their last 45 credits at the degree-granting university; the university may not require a student to take more than 30 credits.

All first baccalaureate students will take at least 50% of credits required for the major from a PASSHE university.

The degree-granting university may not require more than 50% of the major credits. Program exceptions to the policy are to be approved by the Office of the Chancellor.

For Graduate Students:

For master's students, at least 2/3 of the credits meeting program requirements must be taken from the university offering the degree.

Doctoral residency requirements are determined at the program level.

Note that these set the minimum number of credits that must be taken “in residence” and that universities can limit the number of hours that will be allowed to transfer into a graduate program.

For Undergraduate Active-Duty Service Members:

For active-duty service members, the academic residency requirements will not exceed 25 percent of the undergraduate degree program.

If the undergraduate degree is available 100 percent online, the academic residency requirements will not exceed 30 percent of the undergraduate degree program.

With the exception of specific course areas such as majors, the academic residency requirements for active-duty service members will not include a “final year” or “final semester” requirement. In addition, each program is expected to confirm with its respective accrediting agencies the allowable flexibility in order to meet the needs of active-duty service members.

Note also that collaborative programs will be identified such that residency can be met consistent with the collaborative agreement.

Honors Program

<http://www.lhup.edu/honors/>

Interested students, regardless of major, are encouraged to seek admission in the Honors Program. Incoming freshmen with combined SAT scores of 1100+, a verbal SAT of 550+ and a high school class rank of 80%+ are eligible to apply. Students already enrolled at LHU with a grade point average of 3.200+ may seek admission as well. In the evaluation of applications, weaknesses in one area may be offset by strengths in another.

Small, discussion-oriented classes taught by outstanding professors, the opportunity to work one on one with professors on projects of the student’s own design, as well as the chance to participate in regional and national honors conferences are just some of the ways Honors students challenge themselves to grow personally and academically. In addition, our co-curricular program of discussion groups, activity groups, speakers, public issues forums, and service-learning opportunities, provides opportunities for making friends and developing leadership experience. Honors students also have use of the Honors House, a “home-away-from-home” on campus – complete with a common room, activity rooms, and a computer lab. Finally, all honors students are automatically considered each year for merit-based scholarships reserved for students in this program.

The LHU Global Honors Program is open to students from every major.

The Honors Program expresses LHU's continuing commitment to academic excellence. The special honors curriculum combines a rigorous subject matter grounding in the broad sweep of human civilization with an integrated program of high-level intellectual skills development. A spirit of inquiry in the tradition of the liberal arts inspires the program and fosters maximum realization of each student's capacity for independent learning. The Honors Program draws on the university's strength in international education by involving international students in honors courses and by encouraging honors students to study abroad. LHU

encourages and every student to consider study abroad. The sophomore year is the best time for this experience.

Highly talented students admitted to the Honors Program take one or two classes together each semester. These classes share an interdisciplinary approach, a heavy reliance on classic sources, a small size, and active student involvement in discussion. Honors classes satisfy requirements either in General Education or in the student's major. The curriculum is designed to provide an enhanced educational experience and requires a serious commitment and hard work on the part of students.

Honors students also plan, organize and participate in a variety of co-curricular activities, which add a lively, more student-directed dimension to the intellectual life of the university community. These activities are open to all members of the university community and provide regular opportunities for informal faculty-student interaction.

Successful students may receive special recognition, officially noted on transcripts and diploma, in one of two categories: University Honors and University Honors with Distinction. The latter category requires completion of an individually designed program of study in the last two years culminating in a Capstone Project.

Honors courses are open to all students, space permitting. Non-honors students must attain permission of the instructor and the Honors Director.

Incomplete Grade Policy

Students who receive "Incomplete" grades for their coursework must make an arrangement with the instructor outlining what is required to complete the course. LHU will not permit students to graduate if any incomplete grades remain on the student's academic transcript.

At the end of the *4th week* of the next subsequent regular semester, the incomplete grade converts to an "E" for GPA calculations, assuming the student has not completed the assignments or the instructor has not turned in an alternate grade.

Faculty members may request that students complete work prior to the default period and turn in a change of grade form based upon the arrangement with the student.

Faculty may request an extension to the four-week deadline through the Registrar's Office.

Independent Study

The purpose of independent study is to permit outstanding students the opportunity to undertake advanced study in a specialized area not normally provided by regularly scheduled courses. To qualify, a student must have earned at least 30.0 semester hours and have a minimum grade average of 2.000.

Independent studies may not duplicate existing departmental courses, either in name or content, nor are independent studies available during the summer, except in the case of in-service teachers or other extraordinary situations.

The procedure for applying for an independent study is to confer with the faculty sponsor, complete an independent study application packet from the dean of the college providing the independent study and

submit the completed application to the department chairperson, the student's adviser, the dean of the college providing the independent study, and the Vice President for Academic Affairs.

Evaluation of independent studies is the responsibility of the faculty sponsor and may include a written paper, an oral report, or other project materials appropriate to the nature of the study. Credit is variable (one to three semester hours) depending upon the nature of the study. Under normal circumstances, independent study projects will be of such length and complexity that they may be completed in one semester. Students desiring to do additional work on the problem, or to do a problem for the period of a year or more, must submit successive applications through the normal channels.

The final written report shall be submitted to the sponsor. The sponsor shall file the written report with the Office of the Vice President for Academic Affairs at the time that the grade is submitted.

http://www.lhup.edu/registrar/Registrar_Forms/independent_study_application.pdf

Individualized Instruction

Under certain prescribed conditions, students may take courses, which are not being currently offered, on an individual basis. Application is made in the same manner as independent study.

http://www.lhup.edu/registrar/Registrar_Forms/individualized_instruction_application.pdf

International Studies

http://www.lhup.edu/international_studies/

The Institute for International Studies (IIS), located in 126 Akeley Hall, offers study abroad opportunities to students of any major who have a minimum GPA of 2.5 and have earned at least 30 credit hours. With over 30 partner school locations on six continents (North America, South America, Oceania, Europe, Asia, and Africa), students can work with their academic advisers and the IIS staff to choose the partner school that best fits their academic needs and interests. Semester and year-long programs are based on a bed for bed exchange agreement with LHU's partners abroad. Students pay LHU tuition and fees and earn course credits as if they were on campus. Students are billed by the partner schools for room and board. Other international opportunities include faculty-led programs during Spring Break and summer, and student-teaching placements (Croatia, Mexico, Ireland, or Spain) for education majors.

Additional information is available at the IIS Office in Akeley Hall.

Internship Programs

The university offers interested and qualified students an opportunity to participate in various internship programs which provide field experiences to supplement classroom learning. Internship information is available from the appropriate dean.

Qualified students must have completed 60 semester hours of credit and have a 2.5 GPA overall and in the major. Students may apply for a total of 15 semester hours of internship credit. These programs are not mandatory and may require additional justification for administrative approval.

http://www.lhup.edu/registrar/Registrar_Forms/internship_application.pdf

The Harrisburg Internship Semester (THIS)

The Dixon University Center at Harrisburg of the Pennsylvania State System of Higher Education sponsors a student internship each semester during the academic year for one outstanding student from each of the 14 System universities. The major purpose of the internship program is to provide students with an important practical experience and an enriching academic experience. Students are placed in offices where they participate directly in public policy formulation.

The internship experience is structured in the following way:

I. GNED369 Harrisburg Government Internship

This is the practical component of the internship experience, which includes the day-to-day work experience in a government position.

II. GNED369 Harrisburg Government Intern Project

One of the many advantages of studying in Harrisburg is the opportunity to develop direct knowledge of state politics and public policy development. The intern project component of the THIS project serves three purposes. First, it encourages students to focus their attention on a particular aspect of state government politics and policy making. Second, the requirement affords students an opportunity to develop an in-depth knowledge about that subject. Third, it gives the students the opportunity to develop skills in public research and preparing a formal written presentation.

III. POLI369 Seminar on Public Policy making in Harrisburg

The seminar meets one night per week at the Dixon University Center. This seminar explores policy making within the Harrisburg community by looking carefully at both the institutions which shape the state's political life and those individuals who play a major role in influencing institutional behavior. The seminar serves a two-fold purpose: first, to introduce students to concepts that will help them understand the political environment in which they will be working on a daily basis; second, to provide a focal point for integrating their various learning experiences in Harrisburg.

Prospective student interns are chosen in a process which is determined on each campus. The student intern must, at the time of appointment, have maintained at least a 3.0 quality point average in 45 undergraduate credit hours. A student may be chosen from any academic major and the credits from this program may be applied to any discipline at the approval of the appropriate department(s).

Liberal Arts Seminars

Liberal arts seminars in the areas of the humanities, social sciences, and natural and mathematical sciences provide a context to examine inter-relational aspects of knowledge and experience. One seminar in each of the above areas is required of all students majoring in any of the arts and sciences who are candidates for the Bachelor of Arts degree.

Through small group processes, assigned readings, informal conversations, and papers, seminar participants become involved in a cross-disciplinary environment in which each student is encouraged to develop informed insights and perspectives. Seminars focus on elements of history, culture, and science that influence the continuing development of human value systems and endeavors. The substance of a particular seminar includes consideration of the manner in which knowledge is developed and the impact of particular knowledge on contemporary society and on life as it may be experienced in the future. NOTE: All liberal arts seminars carry the course number 328.

Major, Definition, Declaring or Changing

A major is a coherent, in-depth program of study (focus of study) in a particular discipline or disciplines wherein the student will develop and demonstrate an increasing awareness of both the possibilities and the limits of the major program of study. The student will demonstrate mastery of the content, insights, skills and techniques appropriate to an undergraduate education in a particular body of knowledge. The student will take courses which are often sequential, leading to advanced study in the discipline(s).

Students should select a major as early as they are comfortable making the choice. They should also decide early whether to pursue the Bachelor of Arts or the Bachelor of Science degree. All students will be expected to have declared an academic major prior to the completion of the third semester (45.0 semester hours). Delay in declaring a major may result in spending additional time in completion of a degree.

All students should be aware that there is no assurance they will be able to declare any program they choose. Programs with limited capacity may be restricted or closed.

A student may petition for a change of academic major after having enrolled at LHU. The application will be reviewed with respect to selected aptitude and academic records, which are requested in support of the application. It must be understood that students accepted in a particular major at the time of admission of LHU are not eligible for automatic acceptance into another major within the university at a later date.

Majors, List of

A wide variety of majors is offered. A complete list is available under "Programs of Study."

Marine Science Consortium

Classroom study, laboratory research and extensive hands-on experiences in marine environments will prepare the student for a career as a marine biologist. Lock Haven University is a member of the Wallops Island Marine Science Consortium which operates the Marine Science Center on the Delmarva Peninsula in Virginia. This location provides ready access to wetlands and barrier islands as well as inshore and offshore ocean habitats. Students who major in Biology with a concentration in Marine Biology are required to spend three summer sessions (three weeks each) at the Wallops Island facility where the student will collect data and perform research on a diverse variety of aquatic life. The student will use ocean-going research boats to reach points of study and to collect samples. Other resources near Wallops Island for student use include Chincoteague National Wildlife Refuge and the Assateague National Seashore. Recent graduates of this program have entered graduate schools or found employment with private, state, and national marine related organizations.

Mid Semester Grades

At the designated time of each semester, faculty are to submit mid-semester grades via the student information system. Since mid-semester grading is not restricted to low grades, faculty are encouraged to provide all grades so that students are aware of their progress.

All students will be notified to review their academic record for mid-semester grades. Low grades (C-, D+, D, and E) will be e-mailed to the students.

Military Training, Credit for

Students who have completed courses, occupational experiences, and national examinations during military service shall receive credit for courses listed on the Army/American Council on Education Registry Transcript System (AARTS) and the Sailor/Marine American Council on Education Registry Transcripts (SMART).

To determine the value of learning acquired in military service and to award credit for learning, the American Council on Education (ACE) Guide to the Evaluation of Educational Experiences in the Armed Services will serve as a guide.

Credit for military training will appear as transfer credit on the student's academic record.

Minor, Definition

A minor is a coherent program in a particular discipline or disciplines taken in addition to a major. Moreover, a minor will enrich students' educational experiences through study of disciplines or subject matter related to a major, permit the acquisition of skills useful to educational or career goals, or broaden educational background in an additional field of knowledge. Students will demonstrate familiarity with the content, insights, skills and techniques of a particular body of knowledge. A minor consists of 18 to 24 semester hours defined by the department(s); at least six semester hours must be taken at the 300 level or above.

Minors, List of

See Programs of Study

Pass-Fail Option

Each semester a student may be permitted to take one course outside the requirements of his/her major on a pass-fail basis and receive no letter grade in that course. The pass-fail option is limited to 6.0 semester hours in the General Education free elective category. Courses taken on a pass-fail basis are not used in computing a student's GPA.

Students must decide during the first 15 days of registration whether they wish to take the course on a pass-fail basis and, once decided, cannot change that decision. If students repeat a course, they must take it on the same basis as they registered for it originally. Students should exercise extreme caution in choosing this option as employers and other schools frequently are reluctant to accept these grades.

The instructor will not be notified of students taking the course on a pass-fail basis and the Registrar's Office will translate final grades from a letter grade to a pass-fail grade.

Post-Baccalaureate Grade Point Average Calculation

The student's grade point average is "sealed" at the time of baccalaureate graduation. If a student returns for post-baccalaureate or for second degree work, then a new grade point average will be started.

This policy does not extend to an associate degree if the student continues to work toward a bachelor degree or another associate degree at the same institution.

Probation/Suspension/Dismissal

PROBATION

Conditions for Probation

- I. A student will be placed on academic probation if his/her cumulative grade point average falls below 2.000. If the student's cumulative grade point average is below 2.000 and that required to avoid suspension, then the student will be suspended (*see suspension below*).
- II. If the student is enrolled as a first-time freshman (excluding summer sessions) during the fall semester of the current academic year and the student's cumulative GPA is less than 2.000, he/she will be placed on probation.
- III. If a student is placed on probation, it is recommended that the student take no more than 16.0 semester hours of coursework.
- IV. A student placed on probation is urged to repeat courses in which low grades were earned and to consult with his/her academic adviser on a regular basis.

SUSPENSION

Conditions for Suspension (*There need not be a period of probation prior to suspension.*)

- I. The second consecutive semester (excludes summer sessions and winter intersession) of probation results in suspension.
- II. If a student receives a semester grade point average of 0.000, he/she will automatically be suspended, except if the student is enrolled as a first-time freshman (excluding summer sessions) during the fall semester of the current academic year. No appeal is possible for an immediate return. However, if the cumulative grade point average is 2.000 or higher, the student will remain in good academic standing and not be suspended.
- III. If a student's cumulative grade point average becomes less than 1.500, he/she will be suspended, except if the student is enrolled as a first-time freshman (excluding summer sessions) during the fall semester of the current academic year. No appeal is possible for an immediate return.
- IV. A student who receives a cumulative grade point average below that required for the hours attempted will be suspended, except if the student is enrolled as a first-time freshman (excluding summer sessions) during the fall semester of the current academic year. In addition, to avoid suspension, a student must receive a grade point average based on the chart below, except if the student is enrolled as a first-time freshman (excluding summer sessions) during the fall semester of the current academic year.

Semester Hours Attempted* (Not hours earned toward graduation)	Minimum Cumulative Grade Point Average
0.50 to 15.00	1.500
15.50 to 30.00	1.700
30.50 to 60.00	1.900
More than 60.00	2.000

*Attempted hours include withdrawn hours, accepted transfer hours and repeated hours.

A student may appeal a suspension based on the above minimum cumulative GPA (starting with 1.500).

V. A student on suspension must sit out one semester (a fall or a spring semester). After sitting out a period of suspension, the student may request to resume studies through the Registrar's Office.

VI. During a period of suspension, a student may not enroll in the university (including summers, winter intersession, online courses, or other campuses of LHU).

APPEALS

I. The appeal must be in writing, no emails.

II. The appeal is sent to the dean of the college of the student's major.

III. The appeal *must be received in* the dean's office by the date indicated in the suspension letter and on the web

(http://www.lhup.edu/registrar/Academic_Policy_Procedures/Probation_Suspension_Dismissal_FA10.pdf).

This is not a postmark date, rather a received by date.

IV. The dean (or his/her designee) will respond in writing, not by email, to the appeal.

V. The success or failure of a student's academic appeal has no bearing on a student's financial situation or a financial appeal.

VI. A student must understand that in order to maintain academic integrity and fairness to all students, the dean of the college (or his/her designee) will scrutinize each appeal carefully. The appeal letter must document extraordinary circumstances beyond the student's control (e.g. personal, medical, or serious family emergencies) that significantly interfered with his/her ability to complete the required academic work.

VII. The letter must include:

1. A statement with supporting documentation indicating why academic performance was poor.
2. A statement indicating how the student expects to improve his/her academic performance.
3. A statement concerning the projected course of study.
4. Other statements, independent documentation, references and other information that the student feels may be helpful.

DISMISSAL

Conditions for Dismissal

I. Upon the third consecutive suspension, a student will be dismissed.

II. A return to the university is possible only under Academic Amnesty.

MISCELLANEOUS

The registrar will review academic records for probation/suspension/dismissal at the conclusion of the fall semester, the spring semester, and the conclusion of the summer sessions (not after each session).

An academic status of probation, suspension, and dismissal will be included on the student's academic record.

[Probation Checklist](#)

Programs of Study

Major Areas of Study - For a list of requirements for each major go to the section titled "Requirements for Majors"

Degree	Major	Concentration
Bachelor of Science	Accounting	
Master of Education	Alternative Education	
Master of Education	Alternative Education	Instructional Technology
Master of Education	Alternative Education	PreK-4/Early Childhood Education
Bachelor of Science	Applied Computer Science/Information Systems	Database & Network Administration
Bachelor of Science	Applied Computer Science/Information Systems	Interdisciplinary Computing
Bachelor of Science	Applied Computer Science/Information Systems	Mobile & Game Application Development
Bachelor of Arts	Art	
Bachelor of Arts	Art	Graphics/On-line Interactive Design
Bachelor of Science	Athletic Training	<i>Students may be admitted to this program of study upon successful completion of the first two years at LHU.</i>
Bachelor of Science	Biology	
Bachelor of Science	Biology	Cellular/Organismal
Bachelor of Science	Biology	DNA Analysis Methods
Bachelor of Science	Biology	Ecology/Environmental
Bachelor of Science	Biology	Marine Biology
Bachelor of Science	Biology-Chemistry	
Bachelor of Science	Biology-Chemistry	Medical Technology
Bachelor of Science	Biology-Chemistry	Pre-dental
Bachelor of Science	Biology-Chemistry	Pre-medical
Bachelor of Science	Biology-Chemistry	Pre-pharmacy
Bachelor of Science	Biology-Chemistry	Pre-veterinary
Associate of Science	Business Administration	Management
Associate of Science	Business Administration	Management Information Systems
Bachelor of Science	Business Administration	Entrepreneurship
Bachelor of Science	Business Administration	Finance and Economics
Bachelor of Science	Business Administration	International Business
Bachelor of Science	Business Administration	Management
Bachelor of Science	Business Administration	Management Info Systems
Bachelor of Science	Business Administration	Marketing
Bachelor of Science	Chemistry	
Bachelor of Science	Chemistry	Forensic
Bachelor of Science	Chemistry	Nanoscience
Bachelor of Arts	Communication	Advertising & Public Relations

Bachelor of Arts	Communication	Communication & Culture
Bachelor of Arts	Communication	Electronic Media
Bachelor of Arts	Communication	Journalism
Bachelor of Arts	Communication	Professional Communication
Bachelor of Arts	Communication	Public Discourse & Performance
Associate of Arts	Criminal Justice	
Bachelor of Science	Criminal Justice	
Master of Education	Educational Leadership	
Bachelor of Arts	English	Literature
Bachelor of Arts	English	Writing
	Exploratory Studies	
Bachelor of Arts	Foreign Language	French
Bachelor of Arts	Foreign Language	Spanish
Bachelor of Science	Geology	Applied Geology
Bachelor of Science	Geology	Earth & Space Secondary Education
Bachelor of Science	Geology	Engineering Geology
Bachelor of Science	Geology	General Science Secondary Education
Bachelor of Science	Geology	Geography/GIS
Bachelor of Science	Geology	Water and Environment
Bachelor of Science in Health & Physical Education	Health & Physical Education	
Bachelor of Science in Health & Physical Education	Health & Physical Education	Aquatics
Bachelor of Science in Health & Physical Education	Health & Physical Education	Coaching
Bachelor of Science in Health & Physical Education	Health & Physical Education	Sport & PE in Correction
Bachelor of Science	Health Sciences	Applied Health Studies
Bachelor of Science	Health Sciences	Athletic Training
Bachelor of Science	Health Sciences	Community Health
Bachelor of Science	Health Sciences	Physician Assistant
Bachelor of Science	Health Sciences	Pre Physician Assistant
Bachelor of Science	Health Sciences	Pre-physical Therapy
Bachelor of Science	Health Sciences	Pre-Physical Therapy (3+3 Program)
Bachelor of Science	Health Sciences	Pre-professional
Associate of Applied Science	Healthcare Professions	
Bachelor of Arts	History	
Bachelor of Arts	History	Public History
Bachelor of Science	Interdisciplinary Studies	Option 1 (<i>Specialized program that requires review and approval by a board</i>)
Bachelor of Science	Interdisciplinary Studies	Option 2 (<i>Specialized program that students may select after not being able to meet the requirements of their declared program of study.</i>)
Bachelor of Arts	International Studies	

Bachelor of Arts	International Studies	Global Economy
Bachelor of Arts	International Studies	Human Geography
Bachelor of Arts	International Studies	Humanities
Bachelor of Arts	International Studies	International Relations
Bachelor of Arts	International Studies	Latin American Studies
Master of Liberal Arts	Liberal Arts	
Bachelor of Science	Mathematics	
Bachelor of Science	Mathematics	Actuarial Science
Bachelor of Science	Mathematics	Biomathematics
Bachelor of Science in Education	Middle/Elem Educ 4-8	Biology
Bachelor of Science in Education	Middle/Elem Educ 4-8	Geology
Bachelor of Science in Education	Middle/Elem Educ 4-8	Language Arts
Bachelor of Science in Education	Middle/Elem Educ 4-8	Language Arts-Biology
Bachelor of Science in Education	Middle/Elem Educ 4-8	Language Arts-Geology
Bachelor of Science in Education	Middle/Elem Educ 4-8	Math-Biology
Bachelor of Science in Education	Middle/Elem Educ 4-8	Mathematics
Bachelor of Science in Education	Middle/Elem Educ 4-8	Math-Geology
Bachelor of Science in Education	Middle/Elem Educ 4-8	Math-Language Arts
Bachelor of Science in Education	Middle/Elem Educ 4-8	Math-Social Studies
Bachelor of Science in Education	Middle/Elem Educ 4-8	Social Studies
Bachelor of Science in Education	Middle/Elem Educ 4-8	Social Studies-Biology
Bachelor of Science in Education	Middle/Elem Educ 4-8	Social Studies-Geology
Bachelor of Arts	Music	
Bachelor of Arts	Music	Marketing
Bachelor of Arts	Music	Music Education
Bachelor of Fine Arts	Music	
Associate of Applied Science	Nanotechnology	Biology
Associate Applied Science	Nanotechnology	Physical Science
Associate of Science in Nursing	Nursing	
Bachelor of Science in Nursing	Nursing	
Bachelor of Arts	Philosophy	
Bachelor of Arts	Philosophy	Ethics
Master of Health Science	Physician Assistant	
Bachelor of Science	Physics	Applied Physics Nanotechnology
Bachelor of Science	Physics	Pre-Engineering
Bachelor of Science	Physics	Traditional
Bachelor of Arts	Political Science	
Bachelor of Arts	Political Science	Pre-law
Bachelor of Science in Education	PreK-4 / Special Education	
Bachelor of Science in Education	PreK-4/Early Child Education	
Bachelor of Arts	Psychology	
Bachelor of Science	Psychology	

Bachelor of Science	Recreation Management	Community/Commercial
Bachelor of Science	Recreation Management	Fitness Management
Bachelor of Science	Recreation Management	Outdoor Management
Bachelor of Science	Recreation Management	Therapeutic
Bachelor of Science in Education	Secondary Education	Biology
Bachelor of Science in Education	Secondary Education	Chemistry
Bachelor of Science in Education	Secondary Education	English
Bachelor of Science in Education	Secondary Educ-Engl/Special Educ	
Bachelor of Science in Education	Secondary Education	Mathematics
Bachelor of Science in Education	Secondary Educ-Math/Special Educ	
Bachelor of Science in Education	Secondary Education	Physics
Bachelor of Science in Education	Secondary Education	Social Studies
Bachelor of Science in Education	Secondary Educ-Social Studies/Special Educ	
Bachelor of Science	Social Work	
Bachelor of Science	Sociology	
Bachelor of Science	Sociology	Delinquent Youth Analysis
Bachelor of Science	Sociology	Global Diversity
Bachelor of Science in Education	Special Education	Community Services
Bachelor of Science	Sport Administration	
Bachelor of Fine Arts	Studio Arts	
Bachelor of Fine Arts	Studio Arts	Graphics/On-line Interactive Design
Master of Education	Teaching and Learning	
Master of Education	Teaching and Learning	Instructional Technology
Master of Education	Teaching and Learning	PreK-4/Early Childhood Education
Bachelor of Arts	Theatre	
Bachelor of Arts	Theatre	Musical Theatre
Bachelor of Arts	Theatre	Performance
Bachelor of Arts	Theatre	Technical Theatre

Minor Areas of Study

Alternative Education	Early Childhood Educ	Middle School Mathematic
Anthropology	Economics	Nanotechnology
Aquatics	English	Philosophy
Art History	Environmental Studies	Physics
Biology	Fine Arts/Music	Political Science
Business	French	Psychology
Chemistry	Geography	Recreation Management
Coaching	Geoscience	Sociology
Communication Media	German	Spanish
Communication Studies	History	Special Education
Community Health	International Studies	Sport & Exercise Psychol
Computer Information Sci	Latin American Studies	Studio Art

Computer Science	Leadership Studies	Theatre
Dance	Mathematics	Women's Studies

Repeat Policy

For Undergraduate Students:

The universities in the Pennsylvania State System of Higher Education will employ a common standard for individual course repeats as outlined below:

Undergraduate students will be limited to a maximum total of six repeats.

A single course can be repeated a maximum of three times.

The most recent grade (regardless of whether it is higher or lower) will be the grade used for the GPA calculation.

For Graduate Students:

The universities will employ a common standard for individual course repeats as outlined below:

Graduate students can repeat a single course for grade improvement only once.

Graduate students will be limited to a maximum total of two repeats across the program.

The most recent grade (regardless of whether it is higher or lower) will be the grade used for the GPA calculation.

Note: For Post Baccalaureate students, the Course Repeat Policy will be the same as the one for Graduate Students. That is, Post Baccalaureate students can repeat a single course for grade improvement only once with a limit to a maximum total of two repeats during the Post Baccalaureate career.

Universities can set policies that allow fewer repeats but cannot have policies that exceed the maximum established by PASSHE.

Requirements for Graduation

Ultimate responsibility for the successful completion of a degree program lies with the student; therefore, the student must know and observe the academic policies and regulations of the university and must meet the requirements for graduation. Students must work closely with an adviser in examining program and course requirements.

In order to receive honors at graduation with a baccalaureate degree, a student must complete 60 semester hours at LHU.

For students who have completed 60 semester hours excluding their last semester, honors will be based upon the GPA at that time. Students who have completed 45 semester hours excluding their last semester and have an honors GPA shall be so listed in the graduation program and announced, but final determination of honors will be based upon their GPA at the end of their last semester.

Cum Laude

3.500-3.599

Magna cum Laude	3.600-3.749
Summa cum Laude	3.750-4.000

Reserve Officers Training Corps (ROTC)

See "Army Reserve Officers Training Corps (ROTC)."

Satisfactory Progress

Minimum satisfactory progress toward a degree shall be defined as the successful completion of a minimum of 24 semester hours during each academic year (including summer school), while earning grade averages sufficient to avoid probation.

Second Bachelor's Degree

Students who earn a bachelor's degree from another university (or return to LHU after completing a bachelor's degree) meet the general education requirements for the second bachelor's degree, unless the new major requires specific general education courses.

Students who transfer to LHU with a BA or BS degree and want to pursue a BA degree from LHU will not need to complete the seminars and language requirement.

Students who have earned a BS degree from LHU and return for a BA degree may request a waiver of seminars but should complete the foreign language requirement.

Students who have earned their bachelor's degree from another university can be identified in the following ways:

1. A note will appear on the degree audit.

General education requirements met by previously earned bachelor's degree (college). Specific general education courses required by the student's selected major may need to be met. Students should check with adviser or major department chairperson.

2. A comment will appear on the student's transcript. Unfortunately it does not show on the web academic record.

Earned bachelor's degree from (college), (date)

3. All courses presented for transfer will be evaluated and added as transfer coursework. They may not complete LHU's general education requirements on the degree audit; however, they are intended to satisfy the requirements unless the student's major has specific general education requirements. (Prior to 2008 these credits were posted as GNED489 General Education Requirements 52.0 semester hours.)

4. Degree audit will use all courses, whether completed as part of the first degree or as part of the second degree, being applied to the requirements to compute the grade point average on the audit. This grade point average will not match the GPA on the academic record, nor is it the official GPA.

Students who have earned their bachelor's degree from LHU will have their cumulative grade point average restarted upon their first semester of returning to LHU after completing the first bachelor's degree. The

cumulative grade point average on the student's academic record is the official GPA. Degree audit will calculate a GPA based on all courses being evaluated for progress toward degree.

Service Members Opportunity College (SOC)

LHU has been designated as an institutional member of Service Members Opportunity Colleges (SOC). SOC is a consortium of national higher education associations with more than 1,250 institutional members that function in cooperation with the Department of Defense (DoD) and the Military Services, including the National Guard and the Coast Guard, to help meet the higher education needs of service members. As an SOC member, LHU recognizes the unique nature of the military lifestyle and has committed itself to easing the transfer of relevant course credits and credit learning from appropriate military training. SOC is sponsored by the American Association of State Colleges and Universities (AASCU) and the American Association of Community Colleges (AACCC).

Simultaneous Degree Completion

Undergraduate Students:

The common standard will be to require a 150-credit minimum for completion of simultaneous degrees. Students meeting all of the requirements of two majors with less than 150 credit hours can obtain a double-major. In the case of a double major, if the two majors involve multiple degree designations (e.g., B.A. in English and B.S. in Psychology), the student will have the option to select the degree designation that appears on the transcript and diploma.

Graduate Students:

For awarding two simultaneous graduate degrees at least 12 hours will be required beyond the minimal credit requirements for the degree program with the most required credits.

Student Responsibility for Academic Programs

Ultimate responsibility for the successful completion of a degree program lies with the student; therefore, the student must know and observe the academic policies and regulations of the university and must meet the requirements for graduation. Students must work closely with an adviser in examining program and course requirements.

Study Abroad

Study abroad information is available from the Institute for International Study located in Akeley Hall and on the web at <http://www.lhup.edu/international-studies/>.

Syllabus

A syllabus is a schedule of course events and requirements that is given to student in each class. The syllabus outlines what the class will cover, when homework is due, and when exams and finals are scheduled. It also includes the contact information for the instructor and office hours.

Transfer Credit

Lock Haven University accepts credits from regionally accredited colleges and universities.

Regional accreditations include the following:

- Middle States Association of Colleges and Schools

- Northwest Commission on Colleges and Universities
- North Central Association of Colleges and Schools
- New England Association of Schools and Colleges
- Southern Association of Colleges and Schools
- Western Association of Schools and Colleges

Credits from either non-accredited institutions or institutions not accredited by the above will be reviewed for possible acceptance upon receipt of a course syllabus and through the Transfer Credit Appeal process (see Transfer Credit Appeal at the end of this document).

Courses from non-US institutions must be evaluated by World Education Services (WES; phone 212-966-6311) with a copy of the evaluation sent to LHU for a review of possible credit transfer.

LHU complies with the PASSHE Academic Passport Policy and the Pennsylvania statewide transfer and articulation requirements.

Evaluation

All courses presented for transfer will be reviewed by the Registrar's Office and posted to a student's academic record if they meet LHU criteria.

Credit for a specific course matching the goals, objectives, outcomes, and credit hours of an LHU course will be awarded. If there is no specific course at LHU but there is sufficient academic content in a course, elective credit will be awarded either in the discipline of the transfer course or for general education.

Only courses in which a grade of "C" (2.0) or higher is earned will be transferred. (See exception related to PASSHE Academic Passport Policy below.)

Exclusions

Courses which generally do not transfer include, but are not limited to, vocational courses, technical, remedial/developmental courses, and theological courses.

Courses graded on a pass/fail basis do not transfer.

Credits earned by examination at other colleges will not transfer.

Courses in which a student receives a grade of "D" or better at LHU may not be repeated elsewhere for a higher grade and transferred back to LHU. Only new coursework and failed ("E" grade) LHU courses may transfer.

Calculations

Transfer grades are not included in the computation of LHU grade point averages. (See exception related to PASSHE Visiting Student Policy below.)

Transfer credits are used for total hours toward graduation requirements.

Credits for courses from institutions that operate on a quarter-hour system will be converted to semester hours by multiplying the quarter hours by .667.

Limitations

There is no minimum or maximum number of credits which will transfer.

For an undergraduate degree, at least 50% of a student's major credits must be taken from LHU. *Some programs may have stricter requirements.*

For a graduate degree, at least 2/3 of the credits meeting program requirements must be taken from LHU. *Some programs may have stricter requirements.*

For an undergraduate degree, at least 30 semester hours of the student's last 45 semester hours must be taken from LHU. *Some programs may have stricter requirements.*

There is no "age limit" on courses. However, if a department feels there has been significant content change, a student may be required to forfeit the transfer credit and take the course at LHU.

Credit for Experiential Learning

LHU awards credit for CLEP and AP exams based on the exam and the percentile/grade earned.

http://www.lhup.edu/registrar/transfer_information.htm

LHU awards credit for military experience using the American Council on Education (ACE) Guide to the Evaluation of Educational Experience in the Armed Services as a guide.

Undergraduate Enrollment in Graduate Courses

Undergraduate students meeting the following criteria may enroll in graduate courses for graduate credit.

The student must:

- Be in the last semester of the Bachelor's program and eligible for graduation at the completion of the semester.
- Be in Good Academic Standing with a minimum 3.0 GPA
- Apply to the graduate program and be provisionally accepted.
- Restrictions -- Registration is limited to a maximum of 6.0 graduate credits; the graduate credits will not be counted toward requirements needed for the Baccalaureate degree.

Visiting Student Program, Pennsylvania State System of Higher Education (PASSHE)

A. Purpose

1. To facilitate undergraduate student enrollment at institutions of the Pennsylvania State System of Higher Education to take advantage of courses available across the System, without loss of institutional residency, eligibility for honors or athletics, or credits toward graduation at the home institution.

B. Standards

1. The student must be matriculated at the home university with a minimum of 12 college-level credits and be in good academic standing.

2. Students may take a maximum of 24 credits via the Visiting Student Policy.
3. The student who presents evidence of good standing at the home university will be allowed to register for courses at other PASSHE universities. The visiting student priority level for registration will be determined by each university.
4. All credits and grades accrued at other PASSHE universities shall be accepted in full by the home university and thereafter treated as home university credits, residency, and grades.
 - a. It is the responsibility of the student to work with the student's adviser at the home institution regarding applicability of credits towards graduation requirements at the home institution consistent with PASSHE procedures.
 - b. It is the responsibility of the student to complete the Visiting Student Notification Form and submit to the home institution prior to enrolling in courses at another PASSHE institution.
 - c. Students cannot use the Visiting Student Program to repeat courses.
 - d. Students cannot use the Visiting Student Program for internship or practica that are required for licensure or certification without the express written permission of their appropriate university officials at the home university and placement availability at the requested institution.
5. The student shall register at, and pay tuition and fees to, the State System University visited. A student wishing to divide a course load between two institutions during the same term shall register and pay appropriate tuition and fees at both universities.
6. The Office of the Chancellor will work with universities to establish and publish procedures to identify visiting students such that financial aid, residency, eligibility for honors, eligibility for athletics and credits to graduation are assured.

<http://www.lhup.edu/registrar/Application%20for%20Visiting%20Student%20Status.pdf>

Waivers, Course

Course waivers will be recorded on the academic record. Students do not earn credit for a course that has been waived; however, the waiver will complete the requirement on a degree audit. Students are responsible for completing the minimum hours required for a degree. Waivers do not appear on official transcripts.

Withdrawal from Courses

During the first five weeks of the semester students may exercise the option to withdraw from one or all classes without any grading penalty ("E" grades). Students who formally withdraw from a course after the 5th week of a semester and before the 11th week (after the 1st week and before the 4th week of a five-week summer session) will be assigned a grade of either WP or WF by the instructor. Although the WP or WF will continue to appear on the academic transcript, neither grade will raise or lower the student's semester or cumulative grade point average.

During the final five weeks of the semester, withdrawal will be with academic penalty (“E” grade) except when withdrawing from the university (see *University Withdrawal Policy*) with medical documentation.

Withdrawal Policy, from the University

A student who is registered in courses for any semester or summer session is considered an enrolled student to receive grades and to be assessed tuition, fees, and any other applicable charges.

Students who are unable to attend classes or complete the semester for any reason must request a withdrawal from the university by contacting the Office of Student Affairs, Sullivan Hall 311, phone 570-484-2022, or email lkoch@lhup.edu.

Effective Date

The effective date of the withdrawal is the date which is verified by the Office of Student Affairs as the last date of class attendance.

The effective date of the withdrawal will determine the grade to be recorded on the academic record and the amount of tuition, fees, and other charges to be refunded, if applicable. Refunds will be processed according to the university’s refund schedule.

Deadline

The deadline to withdraw from the university without academic penalty is on the academic calendar, for an academic semester usually the first through fifth week of classes. Withdrawing after this published date will be with academic penalty, “E” grades.

University withdrawals will not be processed retroactively. Therefore, it is important for the student to contact the university upon deciding to discontinue enrollment.

Students who do not officially withdraw will receive failing grades and be responsible for all financial obligations.

Medical Withdrawals

In the event of a serious medical condition, a medical withdrawal may be requested. Documentation from a medical professional will be required after the fifth week of enrollment in order to avoid failing grades. If a medical withdrawal is granted, “W” grades will be awarded. A medical withdrawal does not imply forgiveness of charges. A student who incurs charges will be subject to the published refund schedule.

Medical withdrawals must be requested immediately but no later than thirty (30) days after the close of the semester in which the student seeks medical attention.

Students Called to **Active** Military Duty

Students who are called to **active** duty (confirmed by official military orders from the President of United States or the Governor of the Commonwealth of Pennsylvania, reference BOG Policy 1893-19-A) should contact the Office of Student Affairs immediately in Sullivan Hall 311, phone 570-484-2022, fax 570-484-2789, or email lkoch@lhup.edu.

In some cases, a student may have completed a sufficient part of his courses to be able to receive grades or incompletes rather than withdrawing. The student must decide whether he/she will attempt to complete the courses or withdraw completely from the semester/session. If the student chooses a complete withdrawal, the entire semester will be removed from his/her record. This decision is binding.

Military withdrawals are to be requested immediately upon receipt of orders but no later than thirty (30) days after the close of the semester in which the student receives orders.

Withdrawal from Web-Based Courses

The last date of attendance for a web-based course will be provided by the Office of Distance Education. All activity in a web-based course will be considered (i.e. reviewing the syllabus, participating in discussions/chats, submitting assignments, completing a quiz or exam, etc.)

Refund Schedule

No withdrawal, including a medical withdrawal, implies forgiveness of financial obligations. A student who has incurred charges will be subject to the published refund schedule.

The university's refund schedule is available at <http://www.lhup.edu/financial-services/bursar/refund.htm>.

Withdrawal Appeals

Any appeal related to a withdrawal must be submitted in writing to the Registrar within ten days of notification of action. Appeals will be reviewed by a committee consisting of the Registrar, Director of Student Financial Services, and the Vice President of Student Affairs. If the committee is unable to reach a decision, the issue will be forwarded to the Vice President for Academic Affairs.

CLEARFIELD CAMPUS

www.LHUP.edu/Clearfield

The LHU Clearfield Campus is located in the small, friendly, and supportive community of Clearfield, along the Susquehanna River, about 60 miles west of Lock Haven University. The LHU Clearfield Campus offers the following degree programs:

Associate of Science/Business Administration

Concentration in Management: Students are able to attend either full-time or part-time while taking both day and evening courses. The program is made up of traditional and non-traditional students. All coursework can be applied towards the Bachelor's degree in Management offered at Clearfield campus or at the main campus of Lock Haven University. Students completing the A.A.S. in Management will be better prepared for entrepreneurial endeavors, office promotions in their current careers, or additional management opportunities.

Concentration in Management Information Systems (MIS): This degree provides students with an opportunity to acquire both business management and computer application knowledge and skills. Graduates of this program will be prepared for jobs in business fields, which require the application of computer based

information systems. All credits apply towards the Bachelor of Science degree in MIS offered at the Clearfield Campus or main campus of Lock Haven University.

Associate of Applied Science/Healthcare Professions

The Associate of Applied Science in Healthcare Professions program is a flexible design, which can prepare students with a healthcare background to have a better understanding of the healthcare system in America, to be better prepared to meet changes in the healthcare system in American society and to gain a fundamental understanding of the process of setting and accomplishing goals through the use of appropriate resources.

Associate of Arts/Criminal Justice

This two-year program will prepare students for careers in law enforcement, corrections and government. The program emphasizes critical thinking, creative problem solving, ethical decision-making and support for an understanding of constitutional protections for the people of the United States. Students will receive a comprehensive understanding based upon courses in law enforcement, corrections, social problems, juvenile delinquency, and racial and ethnic studies.

Associate Science/Nursing (RN)

Students are instructed in the theory and clinical aspects of patient care and are prepared to sit for their RN licensure exam following successful completion of the program. Several hospitals and agencies are utilized in order to provide a variety of clinical experiences for our students. Advanced placement is also available for eligible L.P.N.s. This demanding but highly rewarding program requires pre-requisite courses and excellent people skills.

Bachelor of Science/Completion Program RN to BSN

The BSN program provides upper division opportunities facilitating mobility of graduates from Associate Degree and diploma programs, allowing them the opportunity to enhance their education and career options. The primary goal is to function in a variety of settings: providing care of the sick in and across environments; participating in, planning, implementing and evaluating activities and programs to promote health; and facilitating population-based health care. The program is designed to build on the student's knowledge and experience as a registered nurse, enhancing skills in critical thinking, case management, and leadership roles.

Bachelor of Science/Applied Health Studies Track

The Applied Health Studies Track is a degree completion program for individuals who are certified, licensed or registered in a healthcare profession. These individuals will have graduated from an accredited healthcare program (i.e. medical radiology, occupational therapy assistant, surgical technology, etc.) and have earned an associate's degree. After graduation, many of these students have a desire to continue their education and earn a bachelor's degree. The purpose of the Applied Health Studies Track is to prepare the student to grow as a professional and assume a position in healthcare leadership.

Bachelor of Science/Business Administration

Concentration in Management: Managers are needed in every organization to plan, organize, lead and control human and other resources to achieve organizational goals. All organizations need people with strong communications skills who can lead a team, think logically, and be decisive. By studying management students will not only develop competencies in areas such as accounting, computers, economics, business law, management and marketing, but will also develop effective interpersonal skills, be exposed to diverse business environments, advance decision making skills, and cultivate entrepreneurial thinking. Management skills can be applied to such areas and industries as supervisor/management; human resources; production; marketing; organizational behavior; international; small business; government; healthcare; hospitality; retail; banking; education, and many more.

Concentration in Management Information Systems (MIS): This is a four-year program designed for students interested in pursuing a career that combines business knowledge with technology expertise. Professionals working in this field serve as liaisons between information systems users and the developers of these computer-based systems. They identify the best use of technology to solve business problems in order to give an organization a competitive edge over its rivals. Successful professionals need a strong foundation in business practices, understand the role of information systems within organizations, and a current knowledge of technology. This program is for students who are interested in careers as systems analysts and developers, business analysts, consultants and information system managers.

Additionally, the LHU Clearfield Campus offers certificate courses through the LHU Extended Education Program. The LHU Clearfield Campus truly offers a small college lifestyle and a big university education at an affordable cost. Our classes are small and taught by highly skilled faculty who are committed to the success of our students, as they strive for academic excellence. The staff is also dedicated to helping our students prepare for their futures. Here you will get the individual attention and support that you need to excel in your chosen field of study.

The campus includes modern classrooms with state of the art technology, an extensive library, computer lab, bookstore, and student lounges . . . everything you need for a quality education. Our campus-wide fiber-optic network allows easy internet access, e-mail, file sharing, computer programs, specialized applications, and the on-line card catalog at the Lock Haven campus library.

There is plenty to do outside the classroom as well with the Clearfield Campus Activities Board, including softball, baseball, pizza parties, bowling, ski outings, bus trips to various cities, theme parties, ice cream socials, movie nights, and events in the community. Our walking trail provides students and our community members an opportunity to connect with Pennsylvania's woodlands and to participate in healthy exercise. Free memberships to the Clearfield YMCA are provided to our students. We encourage you to visit our website at www.LHUP.edu/Clearfield.

GRADUATE PROGRAMS

Additional information about Lock Haven University's graduate program, including admissions, contacts, costs, financial aid, and program requirements can be found at <http://www.lhup.edu/graduatestudies/>. LHU offers the following programs at the graduate level.

Master of Education: Alternative Education (100% On-line Delivery)

The program encourages exploration of methods, research, and epistemologies that focus on both the learner and systemic changes that will benefit all students. The Master of Education in Alternative Education is designed to support professionals in education and related fields. Students will develop skills, knowledge and competencies that will benefit them in their work in alternative and/or regular education settings.

Master of Education: Teaching and Learning (100% On-line Delivery)

The Master of Education program in Teaching and Learning is designed to provide in-service teachers and other education professionals with an opportunity to enhance their knowledge of instructional design, assessment, classroom management and technology integration. Courses also include activities for teachers to develop reflective practice skills through action research within their classrooms. Teachers are encouraged to complete many assignments based on individual professional development goals and needs.

Master of Education: Educational Leadership (100% On-line Delivery)

The Educational Leadership program will focus on developing tomorrow's leaders in education. The program will prepare candidates to qualify for Principal Certification. The purpose of the program is to provide training to future leaders in education for principalships and other leadership roles in schools and other educational settings.

Early Childhood Education Concentration (100% On-line Delivery)

Early Childhood Education coursework will meet the new requirements for continuing education for PreK-Early Childhood Educators. These graduate courses can be taken separately or can be taken as the elective coursework for either the MED Alternative Education or MED Teaching and Learning programs.

The Early Childhood Education concentration is appropriate for those with current PA ECED certification or certification in another area who are interested in increasing the depth and breadth of their knowledge and skills as early childhood educators.

Master of Health Science: Physician Assistant (Face to Face & Distance Delivery)

The 24 month program leads to a Masters of Health Science Degree and a certificate as a Physician Assistant. With locations at the Lock Haven University Main Campus, and three branch locations (Clearfield Campus of LHU, Charles Cole Hospital - Coudersport, and the Dixon University Center – Harrisburg) via distance education (Internet TV delivery), the LHUP program offers students a high quality affordable educational experience. In addition to the core Physician Assistant education, students concentrate their studies on the care of rural and or underserved populations or corrections medicine.

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FACULTY LISTING (2011-2012)

Last Name	First Name	Department
Abeyinghe	Wadduwage	Mathematics
Alexander	Kimberly	Sociology
Allen	Cindy	Health & Physical Educ
Allison	Kathleen	Health Sciences
Ardan	Brian	Library
Ardary	Darlene	Nursing
Arnold	Elizabeth	English
Ashley	Susan	Early Childhood Educ
Aslam	Muhammad	Mathematics
Auringer	Peter	Health & Physical Educ
Baker	Alyce	English
Ballat	Paul	Health & Physical Educ
Barney	Danielle	Athletics
Barney	Sandra	History
Batty	Kimberly	Recreation Management
Baylor	Timothy	Sociology
Bean	James	Psychology
Beardsley	Ann	Nursing
Becker	Melissa	Music
Berard	Stanley	Political Science
Bergey	Blake	Computer Science
Berrios	Ruben	Economics
Bhushan	Latha	Special Education
Boland	Susan	Psychology
Bower	David	Health Sciences
Bower	Lane	Physician Assistant
Bowman	Edward	Criminal Justice
Brink	Terry	Elementary Education
Brink	Judy	Sociology
Bronner	Jason	Art
Broomer	Ramona	Theatre
Bruner	Lynn	Psychology
Bugaj	Stephen	Special Education
Burkett	Denine	Mathematics
Burkett	Richard	Mathematics
Burkholder-Mosco	Nicole	English
Calabrese	Joseph	Biology
Campbell	Peter	Athletics
Campisi	Charles	Sport Administration
Canatella	Holle	History
Cannady	Laurie	English
Cloud	Mark	Psychology
Conklin	Bridget	Nursing
Cook	Fay	Health Sciences
Corman	Brenda	Library

Coval	Stephen	Chemistry
Cullin	Michael	Physics
Cummings	Tracey	English
Curtin	David	Music
Czapla	Pamela	Acad Development & Couns
De Silva	Nishantha	Biology
Dermota	Troy	Chemistry
Devi	Gayatri	English
Dickson	Loretta	Geoscience
Dixon	Curt	Health Sciences
Donahue	Lisa	Early Childhood Educ
Drouin	Joshua	Health Sciences
DuGan	Joyce	Nursing
Eaton	Michelle	Health & Physical Educ
Eisenhauer	Walter	Physician Assistant
Erb	Heather	Philosophy
Erickson	Deborah	Psychology
Ernst	Craig	Physician Assistant
Everett	Robert	Accounting
Everhart	Brett	Health & Physical Educ
Everhart	Kimberly	Health & Physical Educ
Farley	Lawrence	Political Science
Fernando	T. Sarath	Mathematics
Fetzer	Richard	Elementary Education
Finalle	Pamela	Nursing
Foor	Jamie	Library
Fowler	Heather	Acad Development & Couns
Franz	Robert	Acad Development & Couns
Freeman	Richard	Physician Assistant
Gales	Daniel	Health Sciences
Gessner	Catherine	Library
Girton	Matthew	Communication Studies
Goonewardene	Anura	Physics
Goulet	Richard	History
Granich	Steven	Social Work
Grass	Mahlon	Music
Grenoble	Curtis	Physician Assistant
Gruber	Elizabeth	English
Guerrero	J. Patrick	Acad Development & Couns
Guthrie	Steven	Recreation Management
Hanna	Dolores	Nursing
Harlowe	Elizabeth	Political Science
Harnishfeger	Ralph	Biology
Heffner	Raymond	Art
Herrera	Enrique	Spanish
Hicks	Stephen	English

Hinds-Zaami	Denise	Social Work
Hodge	Melinda	Art
Hoff	Joan	Philosophy
Hoffman	Patrizia	Communication Studies
Hosley	Jessica	Alternative Education
Hosley	Nathaniel	Alternative Education
Hossain	Zak	Sociology
Hossain	Punnipa	Special Education
Host	Jayme	Theatre
Houser	Anne	Sociology
Howell	Carina	Biology
Hoy	Frederick	Physics
Huber	Philip	Art
Huegler	Peter	Computer Science
Hunter	Shonah	Biology
Hutchinson	Claudia	Acad Development & Couns
Ingram	Yvette	Health Sciences
Irons	Janet	History
Jenkins	Charles	English
Jensen	Marlene	Marketing
Jensen	Edward	Teaching and Learning
Jones	Mark	Computer Science
Jones	Laird	History
Junco	Reynol	Acad Development & Couns
Karbowiak	Jessica_L.	English
Kellogg	Victoria	Nursing
Kennedy	Erin	Psychology
Kerszberg	Annik	French
Khalequzzaman	Md.	Geoscience
Kim	Jinoh	Computer Science
Kline	Karen	Communication
Koehle	Gregory	Criminal Justice
Kulas	Stephanie	Library
Kurzynski	Marcia	Management
Kutay	Amy	Biology
Lally	Patricia	Sport Administration
Lally	Richard	Sport Administration
Lammel	Julie	Recreation Management
Langdon	Carla	Acad Development & Couns
Lee	Laura	Chemistry
Leffert	John	Physician Assistant
Lewis	Sarah	Physician Assistant
Liddick	Carol	Special Education
Lilla	Rick	Library
Lindzey	Jonathan	Biology
Lippincott	Eric	Health Sciences

Lloyd	William	Accounting
Long	Maribeth	Acad Development & Couns
Long	Leonard	Recreation Management
Lopez	Damarys	Spanish
Lovik-Powers	Marianne	Teaching and Learning
Lowery	Kara	Athletics
Maddox Hafer	Marjorie	English
Mahoney-Ferster	Mary	Early Childhood Educ
Manlove	Elizabeth	Early Childhood Educ
Maresch	Martin	Chemistry
Marshall	Dwayne	Criminal Justice
Marvel	Stephen	Biology
May	Brent	Chemistry
Maynard	Jacinth	Mathematics
McCoy	Vance	Art
McMahon	Beth	Health Sciences
McSkimming	Michael	Criminal Justice
Mikula	Richard	Mathematics
Miller	Ronald	Music
Mitchell	Tara	Psychology
Moore	Marta	Psychology
Morgan	Charles	Mathematics
Morrin	Kevin	Psychology
Mullen	William	Music
Musila	Andrew	Political Science
Myers	Robert	English
Myers	Cori	Management
Nesbitt	J. Todd	Geography
Newburg	Cheryl	Psychology
Newhouse	Joseph	Biology
Nuttall	Ted	Biology
Obenreder	Paul	Computer Science
Offutt	Christine	Psychology
O'Hara	Ellen	Liberal Arts
Overton	Barrie	Biology
Owens	Kimberly	Nursing
Page	Jeanine	Health Sciences
Pandich	Scott	Political Science
Pantaleo	Katherine	Criminal Justice
Park	Tulare	Acad Development & Couns
Paulus	Michael	Social Work
Penman	Jane	Special Education
Peters	Misty	Accounting
Pile	Angela	Mathematics
Pillai	Krishnakumar	Computer Science
Poehner	Priya	Elementary Education

Poff	Carl	Sport Administration
Porter	Michael	Health Sciences
Posey	Douglas	Acad Development & Couns
Postlethwaite	Sara	English
Pribble	Barbara	Health & Physical Educ
Raffin	John	Health Sciences
Range	Kevin	Chemistry
Reece	Constance	Communication Studies
Reid	John	Geoscience
Reitz	Lynette	Social Work
Remley	Christine	Early Childhood Educ
Rhodes	Carroll	Acad Development & Couns
Richards	Kathy	Elementary Education
Riede	Lisa	Communication Studies
Ross	Annjane	Social Work
Roun	Virginia	Health & Physical Educ
Rowedder	Martha	Health & Physical Educ
Rublein	Edmund	Chemistry
Rush	Cathy	Elementary Education
Rush	Steven	Elementary Education
Russell	David	English
Russell	Jody	Health Sciences
Sadow	Robert	History
Satya	Laxman	History
Sayers	Therese	Nursing
Schatz	SueAnn	English
Schillig	Lisette	English
Schmidt	John	Music
Schulze	Frederick	Health Sciences
Sees	Ann	Nursing
Seiler	Steven	Biology
Seiler	Meredith	Elementary Education
Senevirathne	Indrajith	Physics
Severn	Edwin	Music
Shaw	Daniel	Philosophy
Six	Tamson	Criminal Justice
Smith	David	Biology
Smith	Mark	English
Smith	Kurt	History
Smith	Anna	Physician Assistant
Stimpson	Sharon	Early Childhood Educ
Story	Julie	Acad Development & Couns
Stout	Jonathan	Special Education
Strayer	Susan	Computer Science
Strayer	James	Mathematics
Streator	Stephen	Health Sciences

Stringer	Sharon	Communication
Sweigart-Gallagher	Angela	Theatre
Talbot	Andrew	Psychology
Taylor	Sharon	Athletics
Taylor	Jennifer	Psychology
Tess	Daniel	Acad Development & Couns
Thompson	Kenneth	Biology
Tidwell	David	Theatre
Topper	Joby	Library
Traister	Catherine	Health & Physical Educ
Tyson	Denise	Early Childhood Educ
Tzolov	Marian	Physics
Valerio	Eduardo	Spanish
Van Dyke	Richard	English
Wachob	David	Recreation Management
Walker	Gregory	Sociology
Walsh	Jeffrey	Recreation Management
Wartella	Justin	Sport Administration
Washington	Dana	English
Way	Amy	Health Sciences
Weaver	Lisa	Acad Development & Couns
Wheeler	James	Physics
Wheeler	Ann	Political Science & Communication
Whitling	Jacqueline	Chemistry
Widmann	Louis	Health Sciences
Williams	Marlon	Economics
Williams	Steven	Mathematics
Wilson	John	English
Wilt	Brian	Recreation Management
Winch	Elsa	Library
Wooley	Bruce	Computer Science
Wynn	Thomas	Geoscience
Yakut	Cengiz	Health & Physical Educ
Young	Kathleen	Nursing
Young	Dale	Theatre

REQUIREMENTS FOR MAJORS

BACHELOR OF SCIENCE in ACCOUNTING
Declared Fall 2009

GENERAL EDUCATION REQUIREMENTS (51)

Students are encouraged to take almost all of these courses before their junior year

Hrs.	Course	Taken	Grade
PHILOSOPHY (3)			
3	PHIL425	_____	_____

ECONOMICS or POLITICAL SCIENCE (3)

Required of bus. majors; recommended for sophomore year

3	ECON101	_____	_____
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Prerequisite: Score of 9+ in Cat. 1 & 2 or MATH112

WELLNESS (3)

3	_____	_____	_____
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ENGLISH COMPOSITION (3)

3	_____	_____	_____
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ENGL100 is IL

LITERATURE (3)

3	_____	_____	_____
---	-------	-------	-------

SPEECH (3)

3	_____	_____	_____
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SPCH102 is IL, SPCH104 is WE

ART/MUSIC/THEATRE/DANCE (6)

3	_____	_____	_____
3	_____	_____	_____

MUSI101 is WE

WORLD HISTORY (3)

3	_____	_____	_____
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HIST101 & 102 are MC

PSYCHOLOGY (3)

3	_____	_____	_____
---	-------	-------	-------

SOCIOLOGY/ANTHROPOLOGY/GEOGRAPHY (3)

3	_____	_____	_____
---	-------	-------	-------

SOCI101, ANTH101 & 102 are MC

NATURAL SCIENCES (6)

3	_____	_____	_____
3	_____	_____	_____

MATH (3)

3	MATH107	_____	_____
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Prerequisite: MATH100 or score of 9+ in Cat. 1 & 2

MATH COURSES MAY BE REQUIRED AS ELECTIVES

IF math placement score is BELOW 9 in:

- Cat. 1, MATH 009 is required as a 0 credit course
- Cat. 2, MATH100 is required as a gen ed elective
- Cat. 3, MATH112 is required as a gen ed elective

GENERAL EDUCATION ELECTIVES (9)

3	_____	_____	_____
3	_____	_____	_____
3	_____	_____	_____

MAJOR REQUIREMENTS (69)

A GPA of 2.0 or higher is required for graduation, both overall and in the major.

MAJOR CORE (39)

RECOMMENDED COMPLETION BEFORE JUNIOR YEAR

		Hrs.	Taken	Grade
ACCT110	Financial Accounting	3	_____	_____
ACCT115	Management Accounting Prerequisite: ACCT110	3	_____	_____
CISC150	Introduction to Computers	3	_____	_____
CISC250	Advanced Microcomputer Apps Prerequisite: CISC150	3	_____	_____
MATH180	Mathematics for Management Prerequisite: MATH107 & 112 or placement score of 9+ in Categories 1-3	3	_____	_____
MRKT200	Introduction to Marketing	3	_____	_____

RECOMMENDED FOR JUNIORS & SENIORS

	POLI302	Business Law I	3	_____	_____
Either	ENGL345	Business Writing (IL & WE)	3	_____	_____
	ENGL360	Technical Writing Prerequisite: 60 semester hours		_____	_____
	MANG305	Operations/Production Management Prerequisite: ECON101 & MATH180	3	_____	_____
	MANG315	Management: Concepts & Strategies Prerequisite: ECON101 & ACCT110	3	_____	_____
Either	ECON310	Intermediate Macroeconomics	3	_____	_____
	ECON315	Intermediate Microeconomics Prerequisite: Grade "C" or better in ECON101		_____	_____
	MANG325	Financial Management Prerequisite: ECON101 & ACCT110	3	_____	_____

FOR SENIORS ONLY

MANG475	Capstone/Strategic Mgmt (IL & WE) Prerequisites: Bus. & Acct. majors only. Must have 75 semester hours to register and 90 when course begins.	3	_____	_____
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OVERLAY REQUIREMENTS

3 courses:	WE (writing emphasis)	_____
2 courses:	IL (information literacy)	_____
2 courses:	MC (multicultural)	_____
2 Units (28 hours):	EE (external experience)	_____

BACHELOR OF SCIENCE IN ACCOUNTING
Declared Fall 2009

ACCOUNTING REQUIREMENTS (18)

<i>Course</i>	<i>Hrs. When</i>	<i>Taken</i>	<i>Grade</i>	<i>Course</i>	<i>Hrs. When</i>	<i>Taken</i>	<i>Grade</i>
ACCT210 Intro. To Federal Tax	3	_____	_____	ACCT335 Intermediate Accounting I	3	_____	_____
ACCT215 Acct. Info. Systems	3	_____	_____	ACCT340 Intermediate Accounting II	3	_____	_____
ACCT 300 Cost Accounting	3	_____	_____	ACCT420 Auditing	3	_____	_____

ACCOUNTING MAJOR ELECTIVES (6)

ELECTIVES:

ACCT333 Acct. for Gov't & NonProfit	3	_____	_____
ACCT369 Internship	3	_____	_____
ACCT410 Advanced Financial	3	_____	_____
ACCT435 International Acct.	3	_____	_____
ACCT450 Advanced Managerial	3	_____	_____
COMP160 Programming I	3	_____	_____

ELECTIVES:

ACCT460 Advanced Federal Tax	3	_____	_____
CISC255 Database Design	3	_____	_____
CISC306 Systems Analysis & Design	3	_____	_____
MANG430 International Financial Mang.	3	_____	_____
POLI303 Business Law II	3	_____	_____

ACCOUNTING, BUSINESS, OR ECONOMICS ELECTIVES (6)

Any class from the accounting, business, or economics curriculum may fulfill this requirement.

<i>Course</i>	<i>Hrs. When</i>	<i>Taken</i>	<i>Grade</i>
_____		_____	_____
_____		_____	_____
_____		_____	_____

BACHELOR OF SCIENCE in APPLIED COMPUTER SCIENCE AND INFORMATION SYSTEMS

Declared Fall 2010
(revised August 2011)

GENERAL EDUCATION REQUIREMENTS (48)

Hrs.	Course	Taken	Grade
ART/MUSIC/THEATRE/DANCE (6)			
3	ART217	_____	_____
	<i>Prerequisite: ART110, 112 or 212</i>		
3	_____	_____	_____
			<i>MUSI101 is WE</i>
ECONOMICS or POLITICAL SCIENCE (3)			
3	_____	_____	_____
ENGLISH COMPOSITION (3)			
3	_____	_____	_____
			<i>ENGL100 is IL</i>
LITERATURE (3)			
3	_____	_____	_____
NATURAL SCIENCES (6)			
3	_____	_____	_____
3	_____	_____	_____
PHILOSOPHY (3)			
3	_____	_____	_____
PSYCHOLOGY (3)			
3	PSYC100	_____	_____
SOCIOLOGY/ANTHRO/GEOGRAPHY (3)			
3	_____	_____	_____
	<i>SOCI101, ANTH101 & 102, SOCW110 are MC</i>		
SPEECH (3)			
3	_____	_____	_____
	<i>COMM102 is IL, COMM104 is WE</i>		
WELLNESS (3)			
3	_____	_____	_____
WORLD HISTORY (3)			
3	_____	_____	_____
	<i>HIST101 & 102 are MC</i>		
MATH (3)			
3	MATH107	_____	_____
	<i>Prerequisite: MATH100 or score of 9+ in Cat. 1 & 2</i>		
GENERAL EDUCATION ELECTIVES (6) *			
3	_____	_____	_____
3	_____	_____	_____

*** MATH COURSES MAY BE REQUIRED AS ELECTIVES**
 IF math placement score is BELOW 9 in:
 Cat. 1, MATH 009 is required as a 0 credit course
 Cat. 2, MATH100 is required as a gen ed elective

MAJOR REQUIREMENTS (72)

A GPA of 2.0 or higher is required for graduation, both overall and in the major.

MAJOR CORE (39)

RECOMMENDED COMPLETION BEFORE JUNIOR YEAR

		Hrs.	When	Taken	Grade
COMP119	Freshman Seminar	3	F	_____	_____
	<i>Transfer Students may substitute a major elective</i>				
COMP150	Introduction to Computers	3	F&S	_____	_____
COMP160	Programming I	3	F&S	_____	_____
	<i>Prerequisite: MATH112</i>				
COMP200	Fundamentals of Networking	3	S	_____	_____
	<i>Prerequisite: COMP150</i>				
COMP202	Introduction to Systems Admin	3	F	_____	_____
	<i>Corequisite: COMP160</i>				
COMP205	Web-Based Application Dev.	3	S	_____	_____
	<i>Prerequisite: COMP160</i>				
COMP220	Contemporary Issues in Computing	3	F	_____	_____
	<i>Prerequisite: COMP150 (IL & WE)</i>				
COMP255	Database Design	3	F&S	_____	_____
	<i>Prerequisite: COMP160 or COMP250</i>				
ART308	On-line Interactive Design	3	S	_____	_____
	<i>Prerequisite: ART217 or ART110</i>				
MATH113	Precalculus	3	S&F	_____	_____
	<i>Prerequisite: MATH112 or score of 9+ in Cat. 1, 2 & 3</i>				
COMP230	Discrete Structures & Formal Lang	3	S	_____	_____
	<i>Prerequisite: COMP160 & MATH107</i>				

RECOMMENDED COMPLETION DURING JUNIOR OR SENIOR YEARS

		Hrs.	When	Taken	Grade
ENGL345	Business Writing	3	S&F	_____	_____
	<i>Prerequisite of 60 credits (WE & IL)</i>				
COMP475	Senior Capstone	3	S	_____	_____

OVERLAY REQUIREMENTS

3 courses:	WE (writing emphasis)	_____
2 courses:	IL (information literacy)	_____
2 courses:	MC (multicultural)	_____
2 Units (28 hours):	EE (external experience)	_____

BACHELOR OF SCIENCE in APPLIED COMPUTER SCIENCE AND INFORMATION SYSTEMS

Declared Fall 2010

(revised August 2011)

Mobile and Game Application Development Track		Hrs	When	Taken	Grade
COMP225	Mobile Device Programming (<i>Prerequisite: COMP160</i>)	3		_____	_____
COMP240	Game Programming (<i>Prerequisite: COMP160</i>)	3		_____	_____
COMP300	Data Structures and Algorithms (<i>Prerequisite: COMP240</i>)	3		_____	_____
COMP302	C/C++ for Systems Programming (<i>Prerequisite: COMP240</i>)	3		_____	_____
COMP405	Software Engineering (<i>Prerequisite: COMP300</i>)	3		_____	_____
COMP410	Machine Learning & Robotics (<i>Prerequisite: COMP300</i>)	3		_____	_____
COMP430	Computer Graphics (<i>Prerequisite: COMP302</i>)	3		_____	_____
MATH141	Calculus I (<i>Prerequisite: MATH113/placement</i>)	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____

Database and Network Administration Track		Hrs	When	Taken	Grade
COMP260	Information Technology Project Management (<i>Prerequisite: MANG101 & ACCT110 & COMP250</i>)	3		_____	_____
COMP304	Data and Computer Communications (<i>Prerequisite: COMP200</i>)	3		_____	_____
COMP305	Database Application Development (<i>Prerequisite: COMP255</i>)	3		_____	_____
COMP322	Database Systems Administration (<i>Prerequisite: COMP202 & COMP255</i>)	3		_____	_____
COMP325	Advanced SQL (<i>Prerequisite: COMP255</i>)	3		_____	_____
COMP407	Network Systems Administration (<i>Prerequisite: COMP200</i>)	3		_____	_____
COMP412	Network Security (<i>Prerequisite: COMP200</i>)	3		_____	_____
MATH180	Math for Management (<i>Prerequisite: MATH107 & MATH112 /placement</i>)	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____

Interdisciplinary Computing Track		Hrs	When	Taken	Grade
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____

Note: The Interdisciplinary Computing track requires the student, with guidance from the advisor, to develop a detailed study plan prior to declaring this track. This plan must be approved by the Departmental Interdisciplinary Committee and two consulting faculty members from a second discipline. It is suggested that courses in the track consist of at least 4 COMP classes and an additional MATH or COMP class.

Major Elective Requirements

Major electives can include courses in other tracks as well as COMP369 (Internship), COMP499 (Independent Study), and any 200, 300 or 400-level COMP course not in the core .

The following courses in other degree programs can also count towards the major elective requirement: MANG101, MRKT305, BIOL106, BIOL107, CHEM120, CHEM121, PHYS170, PHYS171, PHYS290, MATH142, MATH205, MATH211, MATH243, MATH244 or any 300 or 400 level MATH course aside from 316, 359, 415, 416, 493, 494.

Classes that satisfy a general education requirement cannot be used as a major elective.

B.A. in Art: Specialization in 2-Dimensional Studies

Name: ID#: Advisor:

I. General Education.....(42 credits)

Courses that meet GenEd electives

- Wellness (3 credits)
- Composition (3 credits)
- Speech (3 credits)
- Mathematics (3 credits)
- Art, Music, Dance, or Theatre (6 credits)
- Literature (3 credits)
- Philosophy (3 credits) PHIL 307 Philosophy of Art recommended
- World History (3 credits)
- Political Science or Economics (3 credits)
- Sociology, Anthropology or Geography (3 credits)
- Psychology (3 credits)
- Natural Science (6 credits)

II. Arts & Science Seminars..... 9 credits

- Humanities Seminar (3 credits)
- Social Science Seminar (3 credits)
- Math or Science Seminar (3 credits)

III. General Education Electives10 credits

If you take a 3-credit course for the 2-credit Art Elective elective below, the extra credit can count here.

(1 credit)

IV. Foreign Language..... ..12 credits

V. Art Requirements.....(47 Credits)

Basic Requirements.....(18 credits)

- ART103 Intro to Art
- ART105 Introduction to 3-D
- ART110 Color & 2-D Design
- ART112 Drawing I
- ART210 Materials and Techniques
- ART312 Drawing II

Art History.....(9 credits)

Choose 3 courses from the following: ART301 (Renaissance to Baroque Art); ART304 (Ancient & Medieval Art); ART307 (Asian Art); ART401 (History of Modern Art); ART420 (Art Since 1950); ART430 (American Art)

Two-Dimensional Studies.....(12 credits)

Choose 4 courses from the following: ART217 (Electronic Art); ART309 (Fabrics & Fibers); ART325 (Printmaking); ART330 (Painting); ART350 (Photography as Art)

Art Electives(8 credits)

(2 credits)

TOTAL.....120 credits

General Education Overlays

- Multicultural:
- Writing Emphasis:
- Information Literacy:
- External Experience:

Portfolio Review

Students are required to submit and pass a portfolio review prior to their senior year and be juried into a senior exhibition before graduation. (date passed)

If a student passes Level IV proficiency in fewer than 12 credits the additional credits become electives.

B.A. in Art: Specialization in 3-Dimensional Studies

Name: ID#: Advisor:

I. General Education.....(42 credits)

Courses that meet GenEd electives

- Wellness (3 credits)
- Composition (3 credits)
- Speech (3 credits)
- Mathematics (3 credits)
- Art, Music, Dance, or Theatre (6 credits)
- Literature (3 credits)
- Philosophy (3 credits) PHIL 307 Philosophy of Art recommended
- World History (3 credits)
- Political Science or Economics (3 credits)
- Sociology, Anthropology or Geography (3 credits)
- Psychology (3 credits)
- Natural Science (6 credits)

II. Arts & Science Seminars..... 9 credits

- Humanities Seminar (3 credits)
- Social Science Seminar (3 credits)
- Math or Science Seminar (3 credits)

III. General Education Electives10 credits

If you take a 3-credit course for the 2-credit Art Elective elective below, the extra credit can count here.

(1 credit)

IV. Foreign Language..... ..12 credits

V. Art Requirements.....(47 Credits)

Basic Requirements.....(18 credits)

- ART103 Intro to Art
- ART105 Introduction to 3-D
- ART110 Color & 2-D Design
- ART112 Drawing I
- ART210 Materials and Techniques
- ART312 Drawing II

Art History.....(9 credits)

Choose 3 courses from the following: ART301 (Renaissance to Baroque Art); ART304 (Ancient & Medieval Art); ART307 (Asian Art); ART401 (History of Modern Art); ART420 (Art Since 1950); ART430 (American Art)

Three-Dimensional Studies.....(12 credits)

Choose 4 courses from the following: ART300 (Arts & Crafts); ART305 (Pottery); ART309 (Fabrics & Fibers); ART315 (Ceramics); ART335 (Sculpture); ART340 (Jewelry); ART345 (Metals)

Art Electives(8 credits)

(2 credits)

TOTAL.....120 credits

General Education Overlays

- Multicultural:
- Writing Emphasis:
- Information Literacy:
- External Experience:

Portfolio Review

Students are required to submit and pass a portfolio review prior to their senior year and be juried into a senior exhibition before graduation. (date passed)

If a student passes Level IV proficiency in fewer than 12 credits the additional credits become electives.

B.A. in Art: Specialization in Graphics & On-Line Interactive Design

Name: ID#: Advisor:

I. General Education.....(42 credits)

Courses that meet GenEd electives

- Wellness (3 credits)
- Composition (3 credits)
- Speech (3 credits)
- Mathematics (3 credits)
- Art, Music, Dance, or Theatre (6 credits)

- Literature (3 credits)
- Philosophy (3 credits) PHIL 307 Philosophy of Art recommended
- World History (3 credits)
- Political Science or Economics (3 credits)
- Sociology, Anthropology or Geography (3 credits)
- Psychology (3 credits)
- Natural Science (6 credits)

II. Arts & Science Seminars..... 9 credits

- Humanities Seminar (3 credits)

- Social Science Seminar (3 credits)

- Math or Science Seminar (3 credits)

III. General Education Electives10 credits

If you take a 3-credit course for the 2-credit Art Elective elective below, the extra credit can count here.

(1 credit)

IV. Foreign Language..... ..12 credits

If a student passes Level IV proficiency in fewer than 12 credits the additional credits become electives.

V. Art Requirements.....(47 Credits)

Basic Requirements.....(15 credits)

- ART110 Color & 2-D Design
- ART112 Drawing I
- ART200 Visual Thinking
- ART217 Electronic Art
- ART221 Typography

Art History.....(9 credits)

Choose 3 courses from the following: ART103 (Intro to Art); ART401 (History of Modern Art); ART420 (Art Since 1950); ART430 (American Art)

Graphic Design.....(15 credits)

- ART330 Intro to Computerized Design
- ART308 On-Line Interactive Design
- ART350 Photography as Art
- ART425 SP: Intro to Comp Design
- ART425 SP: On-Line Interactive

Art Electives(8 credits)

(2 credits)

TOTAL.....120 credits

General Education Overlays

- Multicultural:
- Writing Emphasis:
- Information Literacy:
- External Experience:

Portfolio Review

Students are required to submit and pass a portfolio review prior to their senior year and be juried into a senior exhibition before graduation. (date passed)

Lock Haven University
Department of Health Science
Bachelor of Science in Health Science - Athletic Training Major
****For Students entering LHU Fall 2011****
Typical Sequence of Courses

FRESHMAN YEAR

FALL		
CRS #	TITLE	cr
BIOL106	Principles of Biology 1	3
ATTR110	Orientation to Athletic Training	1
HLTH119	Freshman Seminar	1
HLTH128	Anatomy & Physiology 1	3
HLTH129	Anatomy & Physiology 1 Lab	1
MATH112 or MATH113	Intermediate Algebra Precalculus *	3
	General Education	3
	<i>Total</i>	<i>15</i>

SPRING		
CRS #	TITLE	cr
BIOL107	Principles of Biology 2	3
HLTH105	Introduction to Health	3
ATTR106	Athletic Training Techniques	2
HLTH130	Anatomy & Physiology 2	3
HLTH131	Anatomy & Physiology 2 Lab	1
	General Education	3
	<i>Total</i>	<i>15</i>

* Math course entrance depends upon math placement exam results. MATH113 is required for PHYS130

SOPHOMORE YEAR

FALL		
CRS #	TITLE	cr
ATTR202	Care & Prevention	3
HLTH305	Biomechanics	3
	General Education	9
	<i>Total</i>	<i>15</i>

SPRING		
CRS #	TITLE	cr
ATTR230	Evidence Based Medicine	1
ATTR322	Functional Anatomy 1	3
HLTH353	Physiology of Exercise	3
ATTR364	Evaluation Techniques 1	3
ATTR462	Physical Modalities	4
ATTR453	Clinical Experience 1	2
	<i>Total</i>	<i>16</i>

JUNIOR YEAR

FALL		
CRS #	TITLE	cr
PHYS130	Physics 1	4
ATTR342	Functional Anatomy 2	3
ATTR365	Evaluation Techniques 2	3
ATTR463	Therapeutic Exercise & Rehab	4
ATTR454	Clinical Experience 2	2
	<i>Total</i>	<i>16</i>

SPRING		
CRS #	TITLE	cr
PHYS131	Physics 2	4
ATTR304	Admin and Organization 1	2
ATTR260	General Medical Conditions	3
ATTR332	Psychological Aspects of Injury	3
ATTR455	Clinical Experience 3	2
	<i>Total</i>	<i>14</i>

SENIOR YEAR

FALL		
CRS #	TITLE	cr
RECR310	Sports Nutrition	3
ATTR404	Admin and Organization 2	2
HLTH415	Pharmacology	3
ATTR456	Clinical Experience 4	2
	General Education	6
	<i>Total</i>	<i>16</i>

SPRING		
CRS #	TITLE	cr
HLTH---	Capstone Project	1
ATTR457	Clinical Experience 5	2
	General Education	12
	<i>Total</i>	<i>15</i>

Approved by UCC: 4/26/2011

Lock Haven University
Department of Health Science

Bachelor of Science in Health Science - Athletic Training Major

For Students entering LHU Fall 2011

HUMANITIES	18 cr
Art/Music/Theater (6 cr)	Grade
Literature (3 cr)	Grade
Philosophy (3 cr)	Grade
Composition (3 cr)	Grade
Speech (3 cr)	Grade

SOCIAL & BEHAVIORAL SCIENCES	12 cr
World History (3 cr)	Grade
Psychology (3 cr)	Grade
PSYC100 Intro to Psychological Sciences	
Government / Economics (3 cr)	Grade
Sociology / Anthropology (3 cr)	Grade

NATURAL SCIENCE/MATHEMATICS	9 cr
Natural Science (6 cr)	Grade
BIOL106 Principles of Biology I	
BIOL107 Principles of Biology II	
Mathematics (3 cr)	Grade

WELLNESS	3 cr
Wellness (3 cr)	Grade
HLTH105 Introduction to Health	

ELECTIVES	2 cr
Elective (2 cr)	Grade

ATHLETIC TRAINING MAJOR	76 sh
PHYS130 Physics I	4
PHYS131 Physics II	4
RECR303 Sports Nutrition	3
ATTR106 Athletic Training Techniques	2
ATTR110 Orientation to Athletic Training	1
HLTH128 Anatomy & Physiology 1	3
HLTH129 Anatomy & Physiology 1 Lab	1
HLTH130 Anatomy & Physiology 2	3
HLTH131 Anatomy & Physiology 2 Lab	1
ATTR202 Care & Prevention	3
ATTR260 General Medical Conditions	3
HLTH305 Biomechanics	3
ATTR322 Functional Anatomy 1	3
ATTR332 Psychological Aspects of Injury	3
ATTR342 Functional Anatomy 2	3
HLTH353 Physiology of Exercise	3
ATTR364 Evaluation Techniques 1	3
ATTR365 Evaluation Techniques 2	3
HLTH415 Pharmacology	3
ATTR462 Physical Modalities	4
ATTR463 Therapeutic Exercise & Rehab	4
ATTR230 Evidence Based Medicine	1
ATTR304 Administration & Organization in Athletic Training 1	2
ATTR404 Administration & Organization in Athletic Training 2	2
Capstone Project	1
ATTR453 Clinical Experience 1	2
ATTR454 Clinical Experience 2	2
ATTR455 Clinical Experience 3	2
ATTR456 Clinical Experience 4	2
ATTR457 Clinical Experience 5	2

General Education Overlays			
Writing Emphasis	Information Literacy	External Experience	Multicultural
ATTR365 – Eval Techniques 2	ATTR332 – Psyc Aspects of Injury and Illness	ATTR453 Clin Exp 1	SOCI101 – Sociology or ANTH101 - Anthropology
ATTR404 – Admin & Organ 2	ATTR230 – Evidence Based Medicine	ATTR454 Clin Exp 2	HIST101/102 – World History
HLTH4-- - Capstone			

Department of Biological Sciences, Lock Haven University
B.S. BIOLOGY/CHEMISTRY (INTERDISCIPLINARY) (not a degree in Biochemistry)
 DEGREE REQUIREMENTS

Student _____ ID # _____
 Notes: _____

GENERAL EDUCATION REQUIREMENTS

http://www.lhup.edu/academic/acad_affairs/general_education_course_list.htm

	S.H.	Course	When	Grade
I. Wellness Core (3 s.h.)	3 s.h.			
II. Skills Core (9 s.h.)				
English Composition	3 s.h.	Composition		
Mathematics	3 s.h.	MATH 141 Calculus		
Speech	3 s. h.			
III. Content Core (30 s.h.)				
A. Humanities (12 s.h.)				
Art/Music/Theatre/Dance	6 s.h.			
Philosophy	3 s.h.			
Literature	3 s.h.			
B. Social & Behavioral Sciences (12 s.h.)				
World History I or II	3 s.h.			
Political Sciences/Economics	3 s.h.			
Psychology	3 s.h.			
Sociology, Anthropology/Geography	3 s.h.			
C. Natural Sciences (6 s.h.)				
Lab Science	3 s.h.	BIOL106 Prin. Biol. I		
Lab Science	3 s.h.	BIOL107 Prin. Biol. II		

	S.H.	When	Grade		S.H.	When	Grade
Course				Course			

V. Additional Requirements - Overlays (May be in combination with other classes taken)

3 Writing Emphasis (WE) Courses	2 Information Literacy (IL) Courses	2 Multicultural (MC) Courses

2 External Experience (EE) Units (min 14 hours each). Internship or other experiences documented using the form found at the Enrollment Services Web Site.
http://www.lhup.edu/academic/acad_affairs/verification_of_satisfaction_of.htm

**REQUIRED COURSES
BIOLOGY/CHEMISTRY**

Area Courses (total of 8 s.h.)

Course	S.H.	When	Grade
PHYS130 Physics I (MATH113 is a prerequisite)	4	_____	_____
PHYS131 Physics II	4	_____	_____

Core Courses (total of 43 s.h.)

Course	S.H.	When	Grade
CHEM120 Principles of Chemistry I (Must be eligible for MATH 113)	4	_____	_____
CHEM121 Principles of Chemistry II	4	_____	_____
CHEM220 Organic Chemistry I	4	_____	_____
CHEM221 Organic Chemistry II	4	_____	_____
CHEM340 Quantitative Analysis	4	_____	_____
CHEM410 Biochemistry I	4	_____	_____
BIOL206 Botany I	3	_____	_____
BIOL202 Genetics	3	_____	_____
BIOL310 Immunology	2	_____	_____
BIOL330 Cell & Molecular Biology	4	_____	_____
BIOL340 Microbiology	4	_____	_____
BIOL410 Organismal Physiology	3	_____	_____

Biology/Chemistry Electives (total of 17 s.h.)

With the Advisor's approval, students select 8/9 s.h. of Biology Electives (200 level & up) and 8/9 s.h. of upper-level Chemistry Electives (300 level & up). NOTE: Science Seminar does not fulfill major requirements.

Course	S.H.	When	Grade
BIOL/CHEM _____	_ s.h.	_____	_____
BIOL/CHEM _____	_ s.h.	_____	_____
BIOL/CHEM _____	_ s.h.	_____	_____
BIOL/CHEM _____	_ s.h.	_____	_____
BIOL/CHEM _____	_ s.h.	_____	_____

Courses designed for non-science majors cannot be used to satisfy these elective requirements.

**SUGGESTED COURSE OF STUDY FOR
B.S. BIOLOGY/CHEMISTRY**

You may take more courses than suggested, but you must
average 15 s.h. per semester to stay on schedule for graduation.
You are responsible for meeting the pre-requisites of all courses.

SEMESTER	SH	SEMESTER	SH
Fall Freshman Year		Spring Freshman Year	
BIOL106 Principles of Biology I	3	BIOL107 Principles of Biology II	3
CHEM120 Principles of Chemistry I (Must be eligible for MATH113)	4	CHEM121 Principles of Chemistry II	4
MATH xxx (depends on Math Placement test)	3	General Education	9
General Education	6		-
	-		16
	16		
Fall Sophomore Year		Spring Sophomore Year	
BIOL206 Botany I	3	BIOL202 Genetics	3
CHEM220 Organic Chemistry I	4	CHEM221 Organic Chemistry II	4
PHYS130 Physics I	4	PHYS131 Physics II	4
General Education	3	General Education	3
	-		-
	14		14
Fall Junior Year		Spring Junior Year	
BIOL340 Microbiology	4	BIOL310 Immunology	2
BIOL330 Cell & Molecular Biology	4	CHEM410 Biochemistry	4
CHEM316 Quantitative Analysis	4	Biology/Chemistry Electives	3
General Education	3	General Education	6
	-		-
	15		15
Fall Senior Year		Spring Senior Year	
Biology/Chemistry Electives		BIOL410 Organismal Physiology	3
General Education		Biology/Chemistry Electives	
	-	General Education	-
	15		15

Department of Biological Sciences, Lock Haven University
B.S. BIOLOGY/CHEMISTRY - MEDICAL TECHNOLOGY OPTION
 DEGREE REQUIREMENTS

Student _____ ID # _____
 Notes: _____

GENERAL EDUCATION REQUIREMENTS

http://www.lhup.edu/academic/acad_affairs/general_education_course_list.htm

	S.H.	Course	When	Grade
I. Wellness Core (3 s.h.)	3 s.h.	_____	_____	_____
II. Skills Core (9 s.h.)				
English Composition	3 s.h.	Composition	_____	_____
Mathematics	3 s.h.	MATH 113 Pre-Calculus	_____	_____
Speech	3 s. h.	_____	_____	_____
III. Content Core (30 s.h.)				
A. Humanities (12 s.h.)				
Art/Music/Theatre/Dance	6 s.h.	_____	_____	_____
Philosophy	3 s.h.	_____	_____	_____
Literature	3 s.h.	_____	_____	_____
B. Social & Behavioral Sciences (12 s.h.)				
World History I or II	3 s.h.	_____	_____	_____
Political Sciences/Economics	3 s.h.	_____	_____	_____
Psychology	3 s.h.	_____	_____	_____
Sociology/Anthropology/Geography	3 s.h.	_____	_____	_____
C. Natural Sciences (6 s.h.)				
Lab Science	3 s.h.	BIOL106 Prin. Biol. I	_____	_____
Lab Science	3 s.h.	BIOL107 Prin. Biol. II	_____	_____

IV Electives (10 s.h.)

Course	s.h.	When	Grade	Course	s.h.	When	Grade
_____	_____	_____	_____	_____	_____	_____	_____

8 of these elective credits are satisfied by clinical placement during the senior year in a certified Medical Technology Program.

V. Additional Requirements - Overlays (May be in combination with other classes taken)

3 Writing Emphasis (WE) Courses _____ _____ _____	2 Information Literacy (IL) Courses _____ _____ _____	2 Multicultural (MC) Courses _____ _____ _____
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2 External Experience (EE) Units (min 14 hours each). Internship or other experiences documented using the form found at the Enrollment Services Web Site.

http://www.lhup.edu/academic/acad_affairs/verification_of_satisfaction_of.htm

AREA REQUIRED COURSES (8 s.h.)
BIOLOGY/CHEMISTRY: MEDICAL TECHNOLOGY OPTION

Area Courses (total of 8 s.h.)

Course	S.H.	When	Grade
PHYS130 Physics I (MATH113 is a prerequisite)	4	_____	_____
PHYS131 Physics II	4	_____	_____

Core Courses (total of 40 s.h.)

Course	S.H.	When	Grade
CHEM120 Principles of Chemistry I (Must be eligible for MATH 113)	4	_____	_____
CHEM121 Principles of Chemistry II	4	_____	_____
CHEM220 Organic Chemistry I	4	_____	_____
CHEM221 Organic Chemistry II	4	_____	_____
CHEM340 Quantitative Analysis	4	_____	_____
CHEM410 Biochemistry I	4	_____	_____
BIOL202 Genetics	3	_____	_____
BIOL310 Immunology	2	_____	_____
BIOL330 Cell & Molecular Biology 4	4	_____	_____
BIOL340 Microbiology	4	_____	_____
BIOL410 Organismal Physiology	3	_____	_____

* Botany I (BIOL206) is a suggested additional elective.

Medical Technology Placement in certified clinical program in Hospital residence (total of 28 s.h.)
 8 of these hours count as the General Education electives.

Upon successful completion of the clinical program, students will be granted the B.S. Biology/Chemistry degree. Students are eligible to sit for the National Medical Technology certification exam upon completion of the clinical program

**SUGGESTED COURSE OF STUDY FOR
B.S. BIOLOGY/CHEMISTRY: MEDICAL TECHNOLOGY OPTION**

You may take more courses than suggested, but you must
average 15 s.h. per semester to stay on schedule for graduation.
You are responsible for meeting the pre-requisites of all courses.

SEMESTER	SH	SEMESTER	SH
Fall Freshman Year		Spring Freshman Year	
BIOL106 Principles of Biology I	3	BIOL107 Principles of Biology II	3
CHEM120 Principles of Chemistry I (Must be eligible for MATH113)	4	CHEM121 Principles of Chemistry II	4
MATH xxx (depends on Math Placement test)	3	General Education	9
General Education	6		-
	-		16
	16		
Fall Sophomore Year		Spring Sophomore Year	
CHEM220 Organic Chemistry I	4	BIOL202 Genetics	3
PHYS130 Physics I	4	CHEM221 Organic Chemistry II	4
General Education	6	PHYS131 Physics II	4
	-	General Education	3
	14		-
			14
Fall Junior Year		Spring Junior Year	
BIOL340 Microbiology	4	BIOL410 Organismal Physiology	3
BIOL330 Cell & Molecular Biology	4	BIOL310 Immunology	2
CHEM316 Quantitative Analysis	4	CHEM410 Biochemistry	4
General Education	4	General Education	7
	-		-
	16		16
Fall Senior Year		Spring Senior Year	
Clinical Placement - Hospital	-	Clinical Placement - Hospital	-
	14		14

Department of Biological Sciences, Lock Haven University

B.S. BIOLOGY

DEGREE REQUIREMENTS (Beginning Spring 2011)

Student _____ ID # _____

Notes: _____

GENERAL EDUCATION REQUIREMENTS

http://www.lhup.edu/academic/acad_affairs/general_education_course_list.htm

	S.H.	Course	When	Grade
I. Wellness Core (3 s.h.)	3 s.h.	_____	_____	_____
II. Skills Core (9 s.h.)				
English Composition	3 s.h.	Composition	_____	_____
Mathematics	3 s.h.	MATH 107 Basic Statistics	_____	_____
Speech	3 s.h.	_____	_____	_____
III. Content Core (30 s.h.)				
A. Humanities (12 s.h.)				
Art/Music/Theatre/Dance	6 s.h.	_____	_____	_____
Philosophy	3 s.h.	_____	_____	_____
Literature	3 s.h.	_____	_____	_____
B. Social & Behavioral Sciences (12 s.h.)				
World History I or II	3 s.h.	_____	_____	_____
Political Sciences/Economics	3 s.h.	_____	_____	_____
Psychology	3 s.h.	_____	_____	_____
Sociology/Social Work/ Anthropology/Geography	3 s.h.	_____	_____	_____
C. Natural Sciences (6 s.h.)				
Lab Science	3 s.h.	BIOL106 Prin. Biol. I	_____	_____
Lab Science	3 s.h.	BIOL107 Prin. Biol. II	_____	_____

IV Electives (10 s.h.)

Course	s.h.	When	Grade	Course	s.h.	When	Grade
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

V. Additional Requirements - Overlays (May be in combination with other classes taken)

3 Writing Emphasis
(WE) Courses

2 Information Literacy (IL)
Courses

2 Multicultural
(MC) Courses

_____	_____	_____
_____	_____	_____
_____	_____	_____

2 External Experience (EE) Units (min 14 hours each). Internship or other experiences documented using the form found at the Enrollment Services Web Site.

http://www.lhup.edu/academic/acad_affairs/verification_of_satisfaction_of.htm

**SUGGESTED COURSE OF STUDY FOR
B.S. BIOLOGY**

You may take more courses than suggested, but you must
average 15 s.h. per semester to stay on schedule for graduation
You are responsible for meeting the pre-requisites of all courses.

SEMESTER	SH	SEMESTER	SH
Fall Freshman Year		Spring Freshman Year	
BIOL106 Principles of Biology I	3	BIOL107 Principles of Biology II	3
CHEM120 Principles of Chemistry I (Must be eligible for MATH113)	4	CHEM121 Principles of Chemistry II	4
MATH xxx (depends on Math Placement test)	3	General Education	9
General Education	6		
	-		-
	16		16
Fall Sophomore Year		Spring Sophomore Year	
BIOL206 Botany I	3	BIOL202 Genetics	3
CHEM220 Organic Chemistry I	4	CHEM221 Organic Chemistry II	4
BIOLxxx Biology Elective	3	BIOLxxx Biology electives	3
General Education	6	General Education	6
	-		-
	16		16
Fall Junior Year		Spring Junior Year	
BIOL309 Ecology	3	BIOL240 Zoology	3
BIOLxxx Biology elective	3	PHYS131 Physics II	4
PHYS130 Physics I (MATH 113 Prerequisite)	4	CHEMxxx, GEOLxxx or PHYSxxx	3
General Education	6	General Education	5
	-		-
	16		15
Fall Senior Year		Spring Senior Year	
BIOLxxx Biology elective	3	BIOL 410 Organismal Physiology	3
BIOL xxx Biology elective	3	BIOLxxx Biology electives	6
General Education	9	General Education	6
	-		-
	15		15

Department of Biological Sciences, Lock Haven University
B.S. BIOLOGY: CELLULAR AND ORGANISMAL BIOLOGY TRACK
 DEGREE REQUIREMENTS (Beginning Fall 2004)

Student _____ ID # _____
 Notes: _____

GENERAL EDUCATION REQUIREMENTS

http://www.lhup.edu/academic/acad_affairs/general_education_course_list.htm

	S.H.	Course	When	Grade
I. Wellness Core (3 s.h.)	3 s.h.	_____	_____	_____
II. Skills Core (9 s.h.)				
English Composition	3 s.h.	Composition	_____	_____
Mathematics	3 s.h.	MATH 107 Basic Statistics	_____	_____
Speech	3 s.h.	_____	_____	_____
III. Content Core (30 s.h.)				
A. Humanities (12 s.h.)				
Art/Music/Theatre/Dance	6 s.h.	_____	_____	_____
Philosophy	3 s.h.	_____	_____	_____
Literature	3 s.h.	_____	_____	_____
B. Social & Behavioral Sciences (12 s.h.)				
World History I or II	3 s.h.	_____	_____	_____
Political Sciences/Economics	3 s.h.	_____	_____	_____
Psychology	3 s.h.	_____	_____	_____
Sociology/Anthropology/Geography	3 s.h.	_____	_____	_____
C. Natural Sciences (6 s.h.)				
Lab Science	3 s.h.	BIOL106 Prin. Biol. I	_____	_____
Lab Science	3 s.h.	BIOL107 Prin. Biol. II	_____	_____

IV Electives (10 s.h.)

Course	s.h.	When	Grade	Course	s.h.	When	Grade
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

V. Additional Requirements - Overlays (May be in combination with other classes taken)

3 Writing Emphasis
(WE) Courses

2 Information Literacy (IL)
Courses

2 Multicultural
(MC) Courses

_____	_____	_____
_____	_____	_____
_____	_____	_____

2 External Experience (EE) Units (min 14 hours each). Internship or other experiences documented using the form found at the Enrollment Services Web Site.

http://www.lhup.edu/academic/acad_affairs/verification_of_satisfaction_of.htm

**AREA REQUIRED COURSES (31 s.h.)
CELLULAR AND ORGANISMAL BIOLOGY**

	Course	S.H.	When	Grade
MATH141	Calculus I	3 s.h.	_____	_____
CHEM120	Principles of Chemistry I (must be eligible for MATH 113)	4 s.h.	_____	_____
CHEM121	Principles of Chemistry II	4 s.h.	_____	_____
CHEM220	Organic Chemistry I	4 s.h.	_____	_____
CHEM221	Organic Chemistry II	4 s.h.	_____	_____
CHEM410	Biochemistry I	4 s.h.	_____	_____
PHYS130	Physics I (prerequisite of MATH113)	4 s.h.	_____	_____
PHYS131	Physics II	4 s.h.	_____	_____

COURSES WITHIN THE MAJOR (37 s.h.)

CORE REQUIREMENTS (15 s.h.)

Principles of Biology I, II counted as General Education Requirements

	Course	S.H.	When	Grade
BIOL206	Botany I	3 s.h.	_____	_____
BIOL240	Zoology	3 s.h.	_____	_____
BIOL202	Genetics	3 s.h.	_____	_____
BIOL309	Ecology	3 s.h.	_____	_____
BIOL410	Organismal Physiology	3 s.h.	_____	_____

OTHER REQUIREMENTS (8 s.h.)

	Course	S.H.	When	Grade
BIOL330	Cell & Molecular Biology	4 s.h.	_____	_____
BIOL340	Microbiology	4 s.h.	_____	_____

ELECTIVES IN BIOLOGY (14 s.h.)

With the advisors approval, an additional 14 s.h. of biology majors courses must be selected.
Courses designed for non-science majors do not fulfill this requirement,

	Course	S.H.	When	Grade
BIOL_____	_____	_ s.h.	_____	_____
BIOL_____	_____	_ s.h.	_____	_____
BIOL_____	_____	_ s.h.	_____	_____
BIOL_____	_____	_ s.h.	_____	_____
BIOL_____	_____	_ s.h.	_____	_____

**SUGGESTED COURSE OF STUDY FOR
B.S. BIOLOGY: CELLULAR AND ORGANISMAL BIOLOGY TRACK**

You may take more courses than suggested, but you must
average 15 s.h. per semester to stay on schedule for graduation
You are responsible for meeting the pre-requisites of all courses.

SEMESTER	SH	SEMESTER	SH
Fall Freshman Year		Spring Freshman Year	
BIOL106 Principles of Biology I	3	BIOL107 Principles of Biology II	3
CHEM120 Principles of Chemistry I (Must be eligible for MATH113)	4	CHEM121 Principles of Chemistry II	4
MATH xxx (depends on Math Placement test)	3	General Education	9
General Education	6		
	-		-
	16		16
Fall Sophomore Year		Spring Sophomore Year	
BIOL206 Botany I	3	BIOL202 Genetics	3
CHEM220 Organic Chemistry I	4	CHEM221 Organic Chemistry II	4
PHYS130 Physics I (MATH 113 Prerequisite)	4	PHYS131 Physics II	4
General Education	3	General Education	3
	-		-
	14		14
Fall Junior Year		Spring Junior Year	
BIOL340 Microbiology	4	BIOL240 Zoology	3
BIOL330 Cell & Molecular Biology	4	BIOLxxx Biology electives	3
BIOLxxx Biology electives	4	CHEM410 Biochemistry	4
General Education	3	General Education	5
	-		-
	15		15
Fall Senior Year		Spring Senior Year	
BIOL 309 Ecology	3	BIOL 410 Organismal Physiology	3
BIOL xxx Biology elective	3	BIOL xxx Biology electives	4
General Education	9	General Education	8
	-		-
	15		15

Department of Biological Sciences, Lock Haven University
B.S. BIOLOGY: DNA ANALYSIS METHODS option
 DEGREE REQUIREMENTS (Beginning Fall 2008)

Student _____ ID # _____

Notes: _____

GENERAL EDUCATION REQUIREMENTS

		Class	Sem	Grade
I.	Wellness Core (3 s.h.)	_____	_____	_____
II.	Skills Core (total of 9 s.h.)			
	English Composition	3 s.h.	_____	_____
	Mathematics: MATH 107 (Statistics)	3 s.h.	_____	_____
	Speech	3 s.h.	_____	_____
III.	Content Core (total of 30 s.h.)			
	A. Humanities (total of 12 s.h.)			
	Art/Music/Theatre	6 s.h.	_____	_____
	Philosophy	3 s.h.	_____	_____
	Literature	3 s.h.	_____	_____
	B. Social & Behavioral Sciences (total of 12 s.h.)			
	World History I or II	3 s.h.	_____	_____
	Political Science or Economics	3 s.h.	_____	_____
	Psychology	3 s.h.	_____	_____
	Sociology or Anthropology	3 s.h.	_____	_____
	C. Natural Sciences (total of 6 s.h.)			
	Laboratory Science: BIOL 106	3 s.h.	_____	_____
	BIOL 107	3 s.h.	_____	_____

IV. GE Electives (10 s.h.)

Class	Sem.	Grade	s.h.	Class	Sem.	Grade	s.h
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

V. Additional Requirements (May be in combination with other classes taken)

3 Writing Emphasis Classes (WE) _____

2 Information Literacy Classes (IL) _____

2 Multicultural Classes (MC) _____

2 External Experience Units (min 14 hours each) (EE) _____

SUGGESTED COURSE OF STUDY FOR
 B.S. BIOLOGY: **DNA ANALYSIS METHODS** option
 You may take more courses than suggested, but you must
 average 15 s.h. per semester to stay on schedule for graduation

SEMESTER	SH	SEMESTER	SH
Fall Freshman Year		Spring Freshman Year	
BIOL106 Principles of Biology I	3	BIOL107 Principles of Biology II	3
CHEM120 Principles of Chemistry I (Must be eligible for MATH113)	4	CHEM121 Principles of Chemistry II	4
MATH xxx (depends on Math Placement test)	3 3	General Education	9
General Education	6		-
	-		-
	16		16
Fall Sophomore Year		Spring Sophomore Year	
BIOL206 Botany I	3	BIOL202 Genetics	3
CHEM220 Organic Chemistry I	4	BIOL2xx DNA Methods in Biology	1
PHYS130 Physics I (MATH 113 Prerequisite)	4	CHEM221 Organic Chemistry II	4
General Education	3	PHYS131 Physics II	4
	-	General Education	3
	-		-
	14		15
Fall Junior Year		Spring Junior Year	
BIOL340 Microbiology	4	BIOL240 Zoology	3
BIOL330 Cell & Molecular Biology	4	BIOL345 Advanced DNA Methods	3
BIOLxxx Biology electives	3	CHEM410 Biochemistry	4
General Education	3	General Education	5
	-		-
	14		15
Fall Senior Year		Spring Senior Year	
BIOL 309 Ecology	3	BIOL 410 Organismal Physiology	3
BIOL xxx Biology elective	3	BIOL xxx Biology electives	4
General Education	9	General Education	8
	-		-
	15		15

Department of Biological Sciences, Lock Haven University
B.S. BIOLOGY: ECOLOGY AND ENVIRONMENTAL BIOLOGY TRACK
 DEGREE REQUIREMENTS (Beginning Fall 2004)

Student _____ ID # _____
 Notes: _____

GENERAL EDUCATION REQUIREMENTS

http://www.lhup.edu/academic/acad_affairs/general_education_course_list.htm

	S.H.	Course	When	Grade
I. Wellness Core (3 s.h.)	3 s.h.	_____	_____	_____
II. Skills Core (9 s.h.)				
English Composition	3 s.h.	Composition	_____	_____
Mathematics	3 s.h.	MATH 107 Basic Statistics	_____	_____
Speech	3 s. h.	_____	_____	_____
III. Content Core (30 s.h.)				
A. Humanities (12 s.h.)				
Art/Music/Theatre/Dance	6 s.h.	_____	_____	_____
Philosophy	3 s.h.	_____	_____	_____
Literature	3 s.h.	_____	_____	_____
B. Social & Behavioral Sciences (12 s.h.)				
World History I or II	3 s.h.	_____	_____	_____
Political Sciences/Economics	3 s.h.	_____	_____	_____
Psychology	3 s.h.	_____	_____	_____
Sociology/Anthropology/Geography	3 s.h.	_____	_____	_____
C. Natural Sciences (6 s.h.)				
Lab Science	3 s.h.	BIOL106 Prin. Biol. I	_____	_____
Lab Science	3 s.h.	BIOL107 Prin. Biol. II	_____	_____
IV Electives (10 s.h.)				
Course	s.h.	When	Grade	Course
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

V. Additional Requirements - Overlays (May be in combination with other classes taken)

3 Writing Emphasis (WE) Courses _____ _____ _____	2 Information Literacy (IL) Courses _____ _____ _____	2 Multicultural (MC) Courses _____ _____ _____
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2 External Experience (EE) Units (min 14 hours each). Internship or other experiences documented using the form found at the Enrollment Services Web Site.

http://www.lhup.edu/academic/acad_affairs/verification_of_satisfaction_of.htm

**AREA REQUIRED COURSES (30 s.h.)
 ECOLOGY AND ENVIRONMENTAL BIOLOGY**

	Course	S.H.	When	Grade
MATH141	Calculus I	3 s.h.	_____	_____
CHEM120	Principles of Chemistry I (must be eligible for MATH 113)	4 s.h.	_____	_____
CHEM121	Principles of Chemistry II	4 s.h.	_____	_____
CHEM220	Organic Chemistry I	4 s.h.	_____	_____
CHEM221	Organic Chemistry II	4 s.h.	_____	_____
GEOS130	Principles of Geology I	3 s.h.	_____	_____
PHYS130	Physics I (prerequisite of MATH113)	4 s.h.	_____	_____
PHYS131	Physics II	4 s.h.	_____	_____

COURSES WITHIN THE MAJOR (38 s.h.)

CORE REQUIREMENTS (15 s.h.)

Principles of Biology I, II counted as General Education Requirements

	Course	S.H.	When	Grade
BIOL206	Botany I	3 s.h.	_____	_____
BIOL240	Zoology	3 s.h.	_____	_____
BIOL202	Genetics	3 s.h.	_____	_____
BIOL309	Ecology	3 s.h.	_____	_____
BIOL410	Organismal Physiology	3 s.h.	_____	_____

**RESTRICTED FIELD ELECTIVES IN BIOLOGY (Minimum of 9 s.h.)
 Choose from the following courses, or any offered at Wallop's Island Marine
 Science Consortium during the summer**

	Course	S.H.	When	Grade
BIOL405	Field Ecology (even spring)	3 s.h.	_____	_____
BIOL409	Ornithology (odd spring)	3 s.h.	_____	_____
BIOL411	Aquatic Ecology (fall)	3 s.h.	_____	_____
BIOL413	Entomology (even fall)	3 s.h.	_____	_____
BIOL440	Environmental Microbiology (even sp)	3 s.h.	_____	_____
BIOL317	Mycology (odd fall)	3 s.h.	_____	_____
BIOL____	_____	__ s.h.	_____	_____

ELECTIVES IN BIOLOGY (14 s.h.)

With the advisors approval, an additional 14 s.h. of **biology majors courses** must be selected.
 Courses designed for non-science majors do not fulfill this requirement,

	Course	S.H.	When	Grade
BIOL____	_____	_ s.h.	_____	_____
BIOL____	_____	_ s.h.	_____	_____
BIOL____	_____	_ s.h.	_____	_____
BIOL____	_____	_ s.h.	_____	_____
BIOL____	_____	_ s.h.	_____	_____

**SUGGESTED COURSE OF STUDY FOR
B.S. BIOLOGY: ECOLOGY AND ENVIRONMENTAL BIOLOGY TRACK**

You may take more courses than suggested, but you must
average 15 s.h. per semester to stay on schedule for graduation.
You are responsible for meeting the pre-requisites of all courses.

SEMESTER	SH	SEMESTER	SH
Fall Freshman Year		Spring Freshman Year	
BIOL106 Principles of Biology I	3	BIOL107 Principles of Biology II	3
CHEM120 Principles of Chemistry I (Must be eligible for MATH113)	4	CHEM121 Principles of Chemistry II	4
Math xxx (depends on Math Placement test)	3	General Education	9
General Education	6		-
	-		16
	16		
Fall Sophomore Year		Spring Sophomore Year	
BIOL206 Botany I	3	BIOL202 Genetics	3
CHEM220 Organic Chemistry I	4	CHEM221 Organic Chemistry II	4
GEOS130 Principles of Geology I	3	BIOL240 Zoology	3
General Education	4	General Education	4
	-		-
	14		14
Fall Junior Year		Spring Junior Year	
BIOL 309 Ecology	3	BIOLxxx Biology electives	7
PHYS130 Physics I	4	PHYS131 Physics II	4
BIOLxxx Biology electives	5	General Education	4
General Education	3		-
	-		-
	15		15
Fall Senior Year		Spring Senior Year	
BIOL xxx Biology elective	6	BIOL 410 Organismal Physiology	3
General Education	9	BIOL xxx Biology electives	4
	-	General Education	8
	15		-
			15

Department of Biological Sciences, Lock Haven University

B.S. BIOLOGY: MARINE BIOLOGY TRACK

DEGREE REQUIREMENTS (Beginning Fall 2004)

Lock Haven University of Pennsylvania is a member of the Wallops Island Marine Science Consortium (WIMSC) and all Marine Biology courses listed as requirements or electives are taught during summer sessions at the WIMSC campus located at Wallops Island, Virginia. Students must register for these courses at LHUP **and** at WIMSC. All students wishing to register for courses at WIMSC should first see Dr. Thompson, Ulmer Hall 323 (893-2065), email kthomps@lhup.edu

Student _____ ID # _____

Notes: _____

GENERAL EDUCATION REQUIREMENTS

http://www.lhup.edu/academic/acad_affairs/general_education_course_list.htm

	S.H.	Course	When	Grade
I. Wellness Core (3 s.h.)	3 s.h.	_____	_____	_____
II. Skills Core (9 s.h.)				
English Composition	3 s.h.	Composition	_____	_____
Mathematics	3 s.h.	MATH 107 Basic Statistics	_____	_____
Speech	3 s.h.	_____	_____	_____
III. Content Core (30 s.h.)				
A. Humanities (12 s.h.)				
Art/Music/Theatre/Dance	6 s.h.	_____	_____	_____
Philosophy	3 s.h.	_____	_____	_____
Literature	3 s.h.	_____	_____	_____
B. Social & Behavioral Sciences (12 s.h.)				
World History I or II	3 s.h.	_____	_____	_____
Political Sciences/Economics	3 s.h.	_____	_____	_____
Psychology	3 s.h.	_____	_____	_____
Sociology/Anthropology/Geography	3 s.h.	_____	_____	_____
C. Natural Sciences (6 s.h.)				
Lab Science	3 s.h.	BIOL106 Prin. Biol. I	_____	_____
Lab Science	3 s.h.	BIOL107 Prin. Biol. II	_____	_____

IV Electives (10 s.h.)			
Course	s.h.	When	Grade
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

V. Additional Requirements - Overlays (May be in combination with other classes taken)

3 Writing Emphasis (WE) Courses	2 Information Literacy (IL) Courses	2 Multicultural (MC) Courses
_____	_____	_____
_____	_____	_____

2 External Experience (EE) Units (min 14 hours each). Internship or other experiences documented using the form found at the Enrollment Services Web Site.

http://www.lhup.edu/academic/acad_affairs/verification_of_satisfaction_of.htm

**AREA REQUIRED COURSES (30 s.h.)
MARINE BIOLOGY**

	Course	S.H.	When	Grade
MATH141	Calculus I	3 s.h.	_____	_____
CHEM120	Principles of Chemistry I (must be eligible for MATH 113)	4 s.h.	_____	_____
CHEM121	Principles of Chemistry II	4 s.h.	_____	_____
CHEM220	Organic Chemistry I	4 s.h.	_____	_____
CHEM221	Organic Chemistry II	4 s.h.	_____	_____
GEOS110	Oceanography at LHUP or MS110 Intro. to Oceanography at WIMSC	3 s.h.	_____	_____
PHYS130	Physics I (prerequisite of MATH113)	4 s.h.	_____	_____
PHYS131	Physics II	4 s.h.	_____	_____

COURSES WITHIN THE MAJOR (38 s.h.)

CORE REQUIREMENTS (15 s.h.)

Principles of Biology I, II counted as General Education Requirements

	Course	S.H.	When	Grade
BIOL206	Botany I	3 s.h.	_____	_____
BIOL240	Zoology	3 s.h.	_____	_____
BIOL202	Genetics	3 s.h.	_____	_____
BIOL309	Ecology	3 s.h.	_____	_____
BIOL410	Organismal Physiology	3 s.h.	_____	_____

MARINE BIOLOGY REQUIREMENT (3 s.h.)

Note: All marine biology courses are taught only during summer sessions at the Wallops Island Marine Science Consortium Campus in Wallops Island, VA). It will be necessary to register both at LHUP and at WIMSC. All students wishing to register for courses at WIMSC should first see Dr. Thompson, Ulmer Hall 323.

	Course	S.H.	When	Grade
BIOL200	Marine Biology (summer)	3 s.h.	_____	_____

RESTRICTED ELECTIVES (MARINE BIOLOGY 6 s.h.)

Student must choose 6 s.h. from among the biology courses offered at WIMSC or elsewhere (See Page 6 of this booklet).

	Course	S.H.	When	Grade
BIOL____	_____	3 s.h.	_____	_____
BIOL____	_____	3 s.h.	_____	_____

ELECTIVES IN BIOLOGY (14 s.h.)

With the advisors approval, an additional 14 s.h. of **biology majors courses** must be selected. Courses designed for non-science majors do not fulfill this requirement,

	Course	S.H.	When	Grade
BIOL____	_____	_ s.h.	_____	_____
BIOL____	_____	_ s.h.	_____	_____
BIOL____	_____	_ s.h.	_____	_____
BIOL____	_____	_ s.h.	_____	_____

**SUGGESTED COURSE OF STUDY FOR
B.S. BIOLOGY: MARINE BIOLOGY TRACK**

You may take more courses than suggested, but you must average 15 s.h. per semester to stay on schedule for graduation
You are responsible for meeting the pre-requisites of all courses.

SEMESTER	SH	SEMESTER	SH
Fall Freshman Year		Spring Freshman Year	
BIOL106 Principles of Biology I		BIOL107 Principles of Biology II	
CHEM120 Principles of Chemistry I	3	CHEM121 Principles of Chemistry II	3
(Must be eligible for MATH113)	4	General Education	4
Math xxx (depends on Math Placement test)	3		9
General Education	6		-
	-		16
	16		
Summer: BIOL200 Marine Biology			
Fall Sophomore Year		Spring Sophomore Year	
BIOL206 Botany I	3	BIOL202 Genetics	3
CHEM220 Organic Chemistry I	4	BIOL240 Zoology	3
General Education	7	CHEM221 Organic Chemistry II	4
	-	GEOS120 Oceanography	3
	14	General Education	1
			-
			14
Summer: BIOLxxx Marine Biology elective			
Fall Junior Year		Spring Junior Year	
BIOL 309 Ecology	3	BIOLxxx Biology electives	4
PHYS130 Physics I	4	PHYS131 Physics II	4
BIOLxxx Biology electives	2	General Education	4
General Education	3		-
	-		-
	12		12
Summer: BIOLxxx Marine Biology elective			
Fall Senior Year		Spring Senior Year	
BIOL xxx Biology elective	3	BIOL 410 Organismal Physiology	3
General Education	9	BIOL xxx Biology electives	4
	-	General Education	8
	12		-
			15

Note: This is a suggested schedule. All marine courses are taught in the summer at WIMSC campus in Wallops Island, VA and you may take one, two, or three courses in one summer if you wish. You may also take additional Marine Biology courses at WIMSC and count them as biology elective credits.

ASSOCIATE IN SCIENCE in BUSINESS ADMINISTRATION (total 63 s.h.)
Declared Fall 2010

GENERAL EDUCATION REQUIREMENTS (27 s.h.)

Hrs.	Course	Taken	Grade
WELLNESS (
3	_____	_____	_____
ENGLISH COMPOSITION			
3	ENGL100	_____	_____
			<i>ENGL100 is IL</i>
SPEECH			
3	_____	_____	_____
			<i>COMM102 is IL. COMM104 is WE</i>
NATURAL SCIENCES			
3	_____	_____	_____
MATH*			
3	MATH107	_____	_____
			<i>Prerequisite: Math 100 or score of 9+ in Cat. 1 & 2</i>
HUMANITIES (6 s.h. in at least two areas)			
PHILOSOPHY			
3	_____	_____	_____
ART/MUSIC/THEATRE/DANCE			
3	_____	_____	_____
LITERATURE			
3	_____	_____	_____
SOCIAL & BEHAVIORAL SCIENCES (ECON101 + 3 s.h.)			
ECONOMICS			
			<i>Required of Bus. Majors</i>
ECON101			
3	ECON101	_____	_____
AND			<i>Prerequisite: Math 100 or score of 9+ in Cat. 1 & 2</i>
WORLD HISTORY			
3	_____	_____	_____
OR			<i>HIST101 & 102 are MC</i>
PSYCHOLOGY			
3	_____	_____	_____
OR			
SOCIOLOGY/ANTHROPOLOGY/GEOGRAPHY			
3	_____	_____	_____
OR			
POLITICAL SCIENCE			
3	_____	_____	_____

***ADDITIONAL MATH COURSES MAY BE REQUIRED**

IF math placement score is BELOW 9 in:
 Cat. 1, MATH 009 is required as a 0 credit course
 Cat. 2, MATH100 is required as an additional course

Summary: General Education.....	27 s.h.
Major Requirements.....	36 s.h.
Total	63 s.h.

MAJOR REQUIREMENTS (36 s.h.)

	Hrs.	Taken	Grade
CORE REQUIREMENTS (15 s.h.)			
ACCT110	Financial Accounting	3	_____
ACCT115	Management Accounting	3	_____
	<i>Prerequisite: ACCT110</i>		
CISC150	Introduction to Computers	3	_____
CISC250	Advanced Microcomputer Apps	3	_____
	<i>Prerequisite: CISC150, & grade "C" or better in MATH107</i>		
ENGL345	Business Writing (IL & WE)	3	_____

MANAGEMENT TRACK (21 s.h.)

MANG315	Management: Concepts & Strategies	3	_____
	<i>Prerequisite: ECON101 & ACCT110</i>		
MANG320	Human Resources Management	3	_____
	<i>Prerequisite: MANG315</i>		
MRKT200	Introduction to Marketing	3	_____
MAJOR ELECTIVES (12 s.h. from below list including MIS Track courses)			

MANAGEMENT INFORMATION SYSTEMS (MIS) TRACK (21 s.h.)

MANG101	Intro to Management Info Systems	3	_____
CISC200	Fundamentals of Networking	3	_____
CISC220	Contemporary Issues in Computing	3	_____
CISC255	Database Design	3	_____
	<i>Prerequisite: CISC250</i>		
MAJOR ELECTIVES (9 s.h. from below list including MGMT Track courses)			

MAJOR ELECTIVES

ACCT210	Introduction to Federal Income Tax	3	_____
CISC260	Info Tech. Project Management	3	_____
MANG220	Intro to Personal Fin. Management	3	_____
MANG269	Internship (max 3 s.h.)	3	_____
MANG325	Financial Management	3	_____
	<i>Prerequisite: ECON101 & ACCT110</i>		
POLI302	Business Law I	3	_____
<i>Major electives may come from any course above or from the courses listed in the tracks above. Major electives may also come from any major/major elective course listed on the B.S. Business Administration checklist if approved by advisor.</i>			
		3	_____
		3	_____
		3	_____
		3	_____

OVERLAY REQUIREMENTS

2 courses:	WE (writing emphasis)	_____
1 course:	IL (information literacy)	_____
1 course:	MC (multicultural)	_____
14 hours:	EE (external experience)	_____

Note: An overall minimum 2.00 grade point average is required in coursework completed from the major.

BACHELOR OF SCIENCE in BUSINESS ADMINISTRATION

Declared Fall 2010

GENERAL EDUCATION REQUIREMENTS (42)

Students are encouraged to take almost all of these courses before their junior year

Hrs.	Course	Taken	Grade
PHILOSOPHY (3)			
3	Either PHIL102 PHIL425 (WE)	_____	_____
<i>1 of these required for business majors</i>			
ECONOMICS or POLITICAL SCIENCE (3)			
<i>Required of bus. majors; recommended for sophomore year</i>			
3	ECON101	_____	_____
<i>Prerequisite: Score of 9+ in Cat. 2 or MATH100</i>			
WELLNESS (3)			
3	_____	_____	_____
ENGLISH COMPOSITION (3)			
3	ENGL100	_____	_____
<i>ENGL100 is IL</i>			
LITERATURE (3)			
3	_____	_____	_____
SPEECH (3)			
3	_____	_____	_____
<i>COMM102 is IL. COMM104 is WE</i>			
ART/MUSIC/THEATRE/DANCE (6)			
3	_____	_____	_____
3	_____	_____	_____
WORLD HISTORY (3)			
3	_____	_____	_____
<i>HIST101 & 102 are MC</i>			
PSYCHOLOGY (3)			
3	_____	_____	_____
SOCIOLOGY/ANTHROPOLOGY/GEOGRAPHY (3)			
3	_____	_____	_____
<i>SOCI101, ANTH101 & 102 are MC</i>			
NATURAL SCIENCES (6)			
3	_____	_____	_____
3	_____	_____	_____
MATH (3)			
3	MATH107	_____	_____
<i>Prerequisite: MATH100 or score of 9+ in Cat. 1 & 2</i>			

MATH COURSES MAY BE REQUIRED AS ELECTIVES

IF math placement score is BELOW 9 in:

- Cat. 1, MATH 009 is required as a 0 credit course
- Cat. 2, MATH100 is required as a gen ed elective
- Cat. 3, MATH112 is required as a gen ed elective

GENERAL EDUCATION ELECTIVES (9)

3	_____	_____	_____
3	_____	_____	_____
3	_____	_____	_____

OVERLAY REQUIREMENTS

3 courses: WE (writing emphasis)	_____
2 courses: IL (information literacy)	_____
2 courses: MC (multicultural)	_____
28 hours: EE (external experience)	_____

MAJOR CORE --Required of all Business Administration majors (39)

		Hrs.	Taken	Grade
RECOMMENDED COMPLETION BEFORE JUNIOR YEAR				
	ACCT110	Financial Accounting	3	_____
	ACCT115	Management Accounting	3	_____
<i>Prerequisite: ACCT110</i>				
	CISC150	Introduction to Computers	3	_____
	CISC250	Advanced Microcomputer Apps	3	_____
<i>Prerequisite: CISC150, & grade "C" or better in MATH107</i>				
Either	MATH180	Mathematics for Management	3	_____
Either	MATH141	Calculus 1	3	_____
<i>Prerequisites: MATH107. Also MATH112 or placement score of 9+ in Categories 1-3</i>				
	MRKT200	Introduction to Marketing	3	_____
RECOMMENDED FOR JUNIORS & SENIORS				
	POLI302	Business Law I	3	_____
Either	ENGL345	Business Writing (IL & WE)	3	_____
Either	ENGL360	Technical Writing	3	_____
<i>Prerequisite: 60 semester hours</i>				
	MANG305	Operations/Production Mgmt	3	_____
<i>Prerequisite: ECON101 & MATH180</i>				
	MANG315	Management: Concepts & Strategies	3	_____
<i>Prerequisite: ECON101 & ACCT110</i>				
Either	ECON310	Intermediate Macroeconomics	3	_____
Either	ECON315	Intermediate Microeconomics	3	_____
<i>Prerequisite: Grade "C" or better in ECON101</i>				
	MANG325	Financial Management	3	_____
<i>Prerequisite: ECON101 & ACCT110</i>				
FOR SENIORS ONLY				
	MANG475	Capstone/Strategic Mgmt (IL & WE)	3	_____
<i>Prerequisites: Bus. & Acct. majors only.</i>				
<i>Must have 75 semester hours to register and 90 when course begins.</i>				

MAJOR ELECTIVES (9 for MIS, 15 for other concentrations)

Required electives may come from any course below or from the back page, or by taking an additional concentration. MIS concentration requires 9 s.h. major electives; all others require 15 s.h. No course may double count for a concentration and for a major elective.

ACCT210	Intro. Fed. Income Tax (S)	3	_____
ACCT215	Accounting Info Systems (F)	3	_____
ACCT300	Cost Accounting (F)	3	_____
COMM333	Public Relations	3	_____
COMP160	Programming I (F&S)	3	_____
ECON301	Economics of the Environment	3	_____
ECON305	History of Economic Thought	3	_____
ECON320	American Public Finance	3	_____
ECON335	Regional & Urban Economics	3	_____
ECON360	Current Economic Problems	3	_____
ECON410	Econometrics	3	_____
ECON415	Mathematical Economics	3	_____
ENGL360	Technical Writing	3	_____
FOREIGN LANGUAGE (one) (Level IV or higher)		6-9	_____
INTERNSHIP (EE) (MANG369, MRKT369)		1-6	_____
HIST205	History of U.S. Labor Movement	3	_____
HIST311	International Business History	3	_____
MANG220	Intro to Personal Fin. Management	3	_____
MANG326	Fund. Of Investment Management	3	_____
PHIL425	Ethics in Business & Industry	3	_____
POLI303	Business Law II	3	_____
SOCI402	Industrial Sociology	3	_____

CONCENTRATIONS IN THE BUSINESS ADMINISTRATION MAJOR
Declared Fall 2010

To meet requirements for this degree, students may select one concentration plus major electives, or they may instead select two (or more) concentrations and no major electives. Students may double count up to two courses for two concentrations, but cannot triple count any course.

Course	Hrs.	When Taken	Grade	Course	Hrs.	When Taken	Grade
ECONOMICS AND FINANCE (15)							
REQUIRED CORE:				CONCENTRATION ELECTIVES:			
ECON 315	Inter. Microeconomics	3	_____	Select 2 upper division finance or economics courses			
	<i>Must complete both ECON315 & 310)</i>			_____	3	_____	_____
ECON340	Money and Banking	3	_____	_____	3	_____	_____
MANG430	Int'l. Financial Mgmt.	3	_____	_____	_____	_____	_____

ENTREPRENEURSHIP (15)							
REQUIRED CORE:				CONCENTRATION ELECTIVES (Select 2):			
MANG317	Entrepreneurship	3	_____	MANG320	Human Resource Management	3	_____
	<i>Prerequisites: MANG315 and either MRKT200 or RECR330</i>			MANG425	International Business	3	_____
MRKT310	Entrprnrl & Small Biz Mrktg	3	_____	MRKT305	Internet Marketing & eCommerce	3	_____
MANG350	Small Business Management	3	_____	MRKT410	Marketing Research	3	_____
	<i>Prerequisite: MANG317</i>				<i>Prerequisites: MRKT200 and MATH107</i>		
				PSYC235	Interpersonal & Leadership Skills	3	_____

INTERNATIONAL BUSINESS (15)							
REQUIRED CORE:				CONCENTRATION ELECTIVES (Select 2):			
ECON355	Int'l. Trade & Finance	3	_____	ECON330	Economic Development	3	_____
MANG425	International Business	3	_____	GEOG440	Economic Geography	3	_____
MANG430	Int'l. Financial Mgmt.	3	_____	HIST390	Contemporary World Problems	3	_____
<i>Students in Int'l. Business are strongly encouraged to study at least 1 semester abroad and to become proficient in another language.</i>				POLI315	Politics in Developing Nations	3	_____
				POLI350	International Relations	3	_____

MANAGEMENT (15)							
REQUIRED CORE:				CONCENTRATION ELECTIVES (Select 3):			
MANG320	Human Resource Mgmt.	3	_____	MANG317	Entrepreneurship & Small Bus. Mgmt.	3	F&S _____
	<i>Prerequisite: MANG315</i>			MANG350	Small Business Management	3	_____
MANG425	International Business	3	_____	MANG400	Business, Society & Govt.	3	_____
	<i>Prerequisites: ECON101, ACCT115 & MANG315</i>			POLI260	Intro to Public Administration	3	_____
				POLI325	Labor Management Relations	3	_____
				POLI330	Public Policy	3	_____
				POLI365	Organizational Theory & Practice	3	_____
				PSYC313	Industrial & Organizational Psych.	3	_____
				PSYC235	Interpersonal & Leadership Skills	3	_____

MANAGEMENT INFORMATION SYSTEMS (21)							
These courses are all required							
CISC200	Fund. of Networking	3	S _____	CISC260	Info Tech. Project Mgmt.	3	Alt. S _____
CISC220	Contemp. Issues in Comp.	3	F _____	CISC306	Systems Analysis & Design	3	F _____
CISC255	Database Design	3	F&S _____	CISC330	Emerging Business Technologies	3	S _____
	<i>Prerequisite: CISC250</i>			MANG101	Intro to Management Info Systems	3	F _____

MARKETING (15)							
REQUIRED CORE:				CONCENTRATION ELECTIVES (Select 2):			
	<i>Prerequisite for all 3 is MRKT200</i>			CISC255	Database Design	3	F&S _____
MRKT300	Consumer Behavior	3	_____		<i>Prerequisite: Grade "C" or better in MATH 107</i>		
MRKT305	Internet Mrkt & eCommerce	3	_____	COMM292	Principles of Advertising	3	_____
MRKT410	Marketing Research	3	_____	COMM304	Intercultural Communication	3	_____
	<i>Prerequisite for MRKT410 is also MATH107</i>			COMM320	Business Communication	3	_____
				COMM375	Persuasion	3	_____
				COMM496	Advertising Campaign Development	3	_____
				MANG317	Entrepreneurship	3	_____
				MRKT310	Entrepreneurial & Small Bus. Mktg.	3	_____

Name _____ Entry Date _____ Student ID _____

A. General Education 52 sh

	sh	Course	Date	Grade
<u>I. Wellness</u>	3 sh	_____	_____	_____

<u>II. Skills</u>	English Composition	3 sh	<u>ENGL100-Composition</u>	_____	_____
	Mathematics	3 sh*	<u>MATH141-Calculus I</u>	_____	_____
	Speech	3 sh	_____	_____	_____

III. Content

A. <u>Humanities</u>	Art/Music/Theater/Dance	6 sh	_____	_____	_____
	Literature	3 sh	_____	_____	_____
	Philosophy	3 sh	_____	_____	_____

B. <u>Social Sciences</u>	World History	3 sh	_____	_____	_____
	Poli Sci or Econ.	3 sh	<u>ECON101-Intro. Econ.</u>	_____	_____
	Psychology`	3 sh	_____	_____	_____
	Sociol/Anthro/Geog	3 sh	_____	_____	_____

C. <u>Natural Sciences</u>		4 sh*	<u>CHEM120-Prin of ChI</u>	_____	_____
		4 sh*	<u>CHEM121-Prin of Ch II</u>	_____	_____

* Courses are also counted in Area or Core Requirements

<u>IV. Electives</u>	8 sh	Course	Date	Grade
		_____	_____	_____
		_____	_____	_____
		_____	_____	_____
		_____	_____	_____
		_____	_____	_____

V. Additional Overlay Requirements

A. Multicultural (MC) 2 courses Sociology or Anthropology and World History

B. Information Literacy (IL) 2 courses _____

C. Writing Emphasis (WE) 3 courses _____

D. External Experience (EE) 2 units _____

B. Area Requirements **11 sh**

Course	sh	Date	Grade
PHYS170-Intermediate General Physics I	4 sh	_____	_____
PHYS171-Intermediate General Physics II	4 sh	_____	_____
MATH141-Calculus I (also counted as Gen. Ed.)	* sh	_____	_____
MATH142-Calculus II	3 sh	_____	_____

C. Core Requirements **40 sh**

	sh	Date	Grade
CHEM120-Principles of Chemistry I (also Gen. Ed.)	* sh	_____	_____
CHEM121-Principles of Chemistry II (also Gen. Ed.)	* sh	_____	_____
CHEM220-Organic Chemistry I	4 sh	_____	_____
CHEM221-Organic Chemistry II	4 sh	_____	_____
CHEM301-Inorganic Chemistry I	3 sh	_____	_____
CHEM316-Quantitative Analysis	4 sh	_____	_____
CHEM317-Instrumental Analysis	4 sh	_____	_____
CHEM320-Physical Chemistry I	4 sh	_____	_____
CHEM321-Physical Chemistry II	4 sh	_____	_____
CHEM410-Biochemistry	4 sh	_____	_____
CHEM430-Advanced Organic Chemistry	4 sh	_____	_____
CHEM440-Inorganic Chemistry	4 sh	_____	_____
CHEM499-Independent Study	1 sh	_____	_____

D. Electives in Chemistry **9 sh**

300+ Level courses

	sh	Date	Grade
CHEM330-Chemical Literature	1 sh	_____	_____
CHEM350-Polymer Chemistry	3 sh	_____	_____
CHEM3__-_____	_ sh	_____	_____
CHEM4__-_____	_ sh	_____	_____
CHEM404-Spectroscopic Methods of Determination	3 sh	_____	_____
CHEM499-Independent Study	_ sh	_____	_____

E. Electives **8 sh**

Course	sh	Date	Grade
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Name _____ Entry Date _____ Student ID _____

A. General Education 52 sh

	sh	Course	Date	Grade
<u>I. Wellness</u>	3 sh	_____	_____	_____

<u>II. Skills</u>		English Composition	3 sh	ENGL100-Composition	_____
		Mathematics	3 sh*	MATH141-Calculus I	_____
		Speech	3 sh	_____	_____

III. Content

A. Humanities Art/Music/Theater/Dance 6 sh _____

Literature	3 sh	_____	_____	_____
Philosophy	3 sh	_____	_____	_____

B. Social Sciences

World History	3 sh	_____	_____	_____
Poli Sci or Econ.	3 sh	_____	_____	_____
Psychology	3 sh	_____	_____	_____
SOCI/ANTH/GEOG/	3 sh	_____	_____	_____
SOCW		_____	_____	_____

C. Natural Sciences

	4 sh*	CHEM120-Prin of ChI	_____	_____
	4 sh*	CHEM121-Prin of Ch II	_____	_____

* Courses are also counted in Area or Core Requirements

<u>IV. Electives</u>	8 sh	Course	Date	Grade
_____		_____	_____	_____
_____		_____	_____	_____
_____		_____	_____	_____
_____		_____	_____	_____
_____		_____	_____	_____

V. Additional Overlay Requirements

A. Multicultural (MC) 2 courses Sociology, Social Work or Anthropology and World History

B. Information Literacy (IL) 2 courses _____

C. Writing Emphasis (WE) 3 courses _____

D. External Experience (EE) 2 units _____

B. Area Requirements**38 sh**

Course	sh	Date	Grade
PHYS170-Intermediate General Physics I	4 sh	_____	_____
PHYS171-Intermediate General Physics II	4 sh	_____	_____
MATH141-Calculus I (also counted as Gen. Ed.)	* sh	_____	_____
MATH142-Calculus II	3 sh	_____	_____
SOCI101-Intro Sociology (also counted as Gen. Ed.)	* sh	_____	_____
CRJS102-Intro Criminal Justice	3 sh	_____	_____
CRJS205-Drug Abuse	3 sh	_____	_____
CRJS260-Criminal Law	3 sh	_____	_____
CRJS240-Law Enforcement	3 sh	_____	_____
CRJS310-Criminal Investigation	3 sh	_____	_____
CRJS360-Criminal Procedure	3 sh	_____	_____
BIOL106-Principles of Biology I	3 sh	_____	_____
BIOL107-Principles of Biology II	3 sh	_____	_____
BIOL202-Genetics	3 sh	_____	_____

C. Core Requirements**27 sh**

	sh	Date	Grade
CHEM120-Principles of Chemistry I (also Gen. Ed.)	* sh	_____	_____
CHEM121-Principles of Chemistry II (also Gen. Ed.)	* sh	_____	_____
CHEM220-Organic Chemistry I	4 sh	_____	_____
CHEM221-Organic Chemistry II	4 sh	_____	_____
CHEM301-Inorganic Chemistry I	3 sh	_____	_____
CHEM316-Quantitative Analysis	4 sh	_____	_____
CHEM317-Instrumental Analysis	4 sh	_____	_____
CHEM320-Physical Chemistry I	4 sh	_____	_____
CHEM410-Biochemistry	4 sh	_____	_____

D. Electives in Chemistry**3 sh**

300+ Level courses

	sh	Date	Grade
CHEM350-Polymer Chemistry	3 sh	_____	_____
CHEM3_____	_____ sh	_____	_____
CHEM404-Spectroscopic Methods of Determination	3 sh	_____	_____
CHEM499-Independent Study	_____ sh	_____	_____
CHEM4_____	_____ sh	_____	_____

Name _____ Entry Date _____ Student ID _____

A. General Education **52 sh**

	sh	Course	Date	Grade
<u>I. Wellness</u>	3 sh	_____	_____	_____

<u>II. Skills</u>		English Composition	3 sh	<u>ENGL100-Composition</u>	_____
		Mathematics	3 sh*	<u>MATH141-Calculus I</u>	_____
		Speech	3 sh	_____	_____

III. Content

A. Humanities Art/Music/Theater/Dance 6 sh _____

	3 sh	Literature		
	3 sh	Philosophy		

B. Social Sciences World History 3 sh _____

	3 sh	Poli Sci or Econ.		<u>ECON101-Intro. Econ.</u>	_____
	3 sh	Psychology		<u>PSYC100-Intro Psych.</u>	_____
	3 sh	SOCI/ANTH/GEOG/ SOCW		_____	_____

C. Natural Sciences

	4 sh*	<u>CHEM120-Prin of Ch I</u>		
	4 sh*	<u>CHEM121-Prin of Ch II</u>		

* Courses are also counted in Area or Core Requirements

<u>IV. Electives</u>		Course	Date	Grade
	4 sh*	<u>PHAP300 Thin Films</u>	_____	_____
	4 sh*	<u>PHAP431 Adv Lab</u>	_____	_____
		(2 sh fall & 2 sh spring)		

V. Additional Overlay Requirements

A. Multicultural (MC) 2 courses Sociology, Social Work or Anthropology and World History

B. Information Literacy (IL) 2 courses _____

C. Writing Emphasis (WE) 3 courses _____

D. External Experience (EE) 2 units _____

B. Area Requirements**30 sh**

Course	sh	Date	Grade
PHYS170-Intermediate General Physics I	4 sh	_____	_____
PHYS171-Intermediate General Physics II	4 sh	_____	_____
MATH141-Calculus I	* sh	_____	_____
MATH142-Calculus II	3 sh	_____	_____
PHAP100-Intro to Nanoscience	1 sh	_____	_____
Certificate Courses (PSU)			
PHAP201-Materials, Safety & Equipment Overview	3 sh	_____	_____
PHAP202-Basic Nanofabrication Process	3 sh	_____	_____
PHAP203-Thin Films in Nanofabrication	3 sh	_____	_____
PHAP204-Advanced Lithography & Dielectrics	3 sh	_____	_____
PHAP205-Materials Modification	3 sh	_____	_____
PHAP206-Characterization, Packaging, Testing	3 sh	_____	_____
PHAP300-Thin Films	* sh	_____	_____
PHAP431-Advanced Applied Physics Lab	* sh	_____	_____

C. Core Requirements**32 sh**

	sh	Date	Grade
CHEM120-Principles of Chemistry I (also Gen. Ed.)	* sh	_____	_____
CHEM121-Principles of Chemistry II (also Gen. Ed.)	* sh	_____	_____
CHEM220-Organic Chemistry I	4 sh	_____	_____
CHEM221-Organic Chemistry II	4 sh	_____	_____
CHEM301-Inorganic Chemistry I	3 sh	_____	_____
CHEM316-Quantitative Analysis	4 sh	_____	_____
CHEM317-Instrumental Analysis	4 sh	_____	_____
CHEM320-Physical Chemistry I	4 sh	_____	_____
CHEM321-Quantum Chemistry & Spectroscopy	4 sh	_____	_____
CHEM410-Biochemistry	4 sh	_____	_____
CHEM499-Independent Study	1 sh	_____	_____

D. Electives in Chemistry**6 sh**

300+ Level courses

	sh	Date	Grade
CHEM330-Chemical Literature	1 sh	_____	_____
CHEM350-Polymer Chemistry	3 sh	_____	_____
CHEM3 _____	__ sh	_____	_____
CHEM4 _____	__ sh	_____	_____
CHEM404-Spectroscopic Methods of Determination	3 sh	_____	_____
CHEM430-Advanced Organic Chemistry	4 sh	_____	_____
CHEM440-Inorganic Chemistry	4 sh	_____	_____
CHEM499-Independent Study	__ sh	_____	_____

Check Sheet for B.A. in Communication (Effective Fall 2010)

Grand total number of Communication (COMM) credit hours: 42

Consists of four CORE courses (12 hours), one TRACK of five courses (15 hours) and 15 COMM elective credits.

I. Required CORE courses for the Communication Major (required for all tracks)

- COMM 100 Introduction to Communication
- COMM 150 Introduction to Mass Communication
- COMM 330 Cultural Studies in Mass Communication
- COMM 400 Communication Capstone Seminar

II. Required TRACK courses – Each student must complete one track

<u>Journalism Track</u> – required courses:	<u>Electronic Media Track</u> – required courses:	<u>Advertising and Public Relations Track</u> – required courses:
<ul style="list-style-type: none"> <input type="checkbox"/> COMM 190 Writing for the Mass Media <input type="checkbox"/> COMM 290 News Reporting <input type="checkbox"/> COMM 393 News Editing <input type="checkbox"/> COMM 493 Online Journalism <input type="checkbox"/> COMM 494 Communication Law and Ethics 	<ul style="list-style-type: none"> <input type="checkbox"/> COMM 190 Writing for the Mass Media <input type="checkbox"/> COMM 295 Radio Journalism <input type="checkbox"/> COMM 310 Television Journalism <input type="checkbox"/> One specialty production course: <input type="checkbox"/> COMM 317 Radio Workshop or <input type="checkbox"/> COMM 370 Digital Video Editing or <input type="checkbox"/> COMM 315 Corporate Video Production <input type="checkbox"/> COMM 494 Communication Law and Ethics 	<ul style="list-style-type: none"> <input type="checkbox"/> COMM 190 Writing for the Mass Media <input type="checkbox"/> COMM 292 Principles of Advertising <input type="checkbox"/> COMM 333 Public Relations <input type="checkbox"/> COMM 495 Public Relations Writing <input type="checkbox"/> COMM 494 Communication Law and Ethics

<u>Communication and Culture Track</u> – required courses:	<u>Professional Communication Track</u> – required courses:	<u>Public Discourse and Performance Track</u> – required courses:
<ul style="list-style-type: none"> <input type="checkbox"/> COMM 208 Communication Theory <input type="checkbox"/> Either COMM 210 Gender and the Mass Media or COMM 328 Gender and Communication <input type="checkbox"/> COMM 350 Introduction to Communication Research <input type="checkbox"/> Either COMM 305 Television Criticism or COMM 360 Communication Analysis <input type="checkbox"/> One film course: <input type="checkbox"/> COMM 250 Movies Look at the Media Professions or COMM 328 Introduction to Film or COMM 392 Documentary Film or COMM 491 Propaganda and Public Opinion or COMM 499 Independent Study 	<ul style="list-style-type: none"> <input type="checkbox"/> COMM 103 Small Group Communication <input type="checkbox"/> COMM 208 Communication Theory <input type="checkbox"/> Either COMM 304 Intercultural Communication or COMM 405 Communication and Responsibility <input type="checkbox"/> COMM 320 Business Communication <input type="checkbox"/> COMM 369 Internship 	<ul style="list-style-type: none"> <input type="checkbox"/> Either COMM 200 Voice and Articulation or COMM 345 Advanced Public Speaking <input type="checkbox"/> COMM 220 Oral Interpretation <input type="checkbox"/> Either COMM 317 Radio Workshop or COMM 318 Video Workshop <input type="checkbox"/> COMM 303 Argumentation and Debate <input type="checkbox"/> One analytical course: <input type="checkbox"/> COMM 360 Communication Analysis or COMM 375 Persuasion or COMM 405 Communication and Responsibility

Check Sheet for B.A. in Communication (Effective Fall 2010)

III. Communication Electives – Each student must complete 15 hours	
<input type="checkbox"/>	3 s.h.
<input type="checkbox"/>	3 s.h.
<input type="checkbox"/>	3 s.h.
<input type="checkbox"/>	3 s.h.
<input type="checkbox"/>	3 s.h.

IV. General Education: 78 hours required			
Foreign Language: 12 s.h. (Student must pass the fourth level)		Liberal Arts Seminars: 3 required (9 s.h.)	
<input type="checkbox"/>	3 s.h.	<input type="checkbox"/>	Humanities Liberal Arts Seminar 3 s.h.
<input type="checkbox"/>	3 s.h.	<input type="checkbox"/>	Social Science Liberal Arts Seminar 3 s.h.
<input type="checkbox"/>	3 s.h.	<input type="checkbox"/>	Natural Science Liberal Arts Seminar 3 s.h.
<input type="checkbox"/>	3 s.h.		

<input type="checkbox"/>	<input type="checkbox"/>	Art or Music or Theater or Dance	6 s.h.	<input type="checkbox"/>	Lab Science	3 s.h.
<input type="checkbox"/>		Composition	3 s.h.	<input type="checkbox"/>	Lab Science	3 s.h.
<input type="checkbox"/>		Literature	3 s.h.			
<input type="checkbox"/>		Mathematics	3 s.h.	ELECTIVES (15 hours)		
<input type="checkbox"/>		Government (POLI) or Economics	3 s.h.	<input type="checkbox"/>		
<input type="checkbox"/>		Philosophy	3 s.h.	<input type="checkbox"/>		
<input type="checkbox"/>		Psychology	3 s.h.	<input type="checkbox"/>		
<input type="checkbox"/>		Sociology or Anthropology or Geography or Social Work	3 s.h.	<input type="checkbox"/>		
<input type="checkbox"/>		Speech (COMM 102, 103, 104, or 303)	3 s.h.	<input type="checkbox"/>		
<input type="checkbox"/>		World History	3 s.h.			
<input type="checkbox"/>		Wellness	3 s.h.			

Required Overlays			
Writing Emphasis (3 courses)		Multicultural Emphasis (2 courses)	
<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>			
Information Literacy (2 courses)		External Experience (2 units)	
<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	

Projected Schedule and Requirements for Associate of Arts in Criminal Justice
Effective Fall Semester 2011

First YEAR

FALL	SPRING
CRJS 102 – Intro. to Criminal Justice SOCI 101 - Introduction to Sociology ENGL 100 - English Composition Humanities - Gen Ed (3 CR) HIST 101 or HIST 102 - World History (15 Credits)	PSYC 100 - Introduction to Psychology Humanities - Gen Ed (3 CR) MATH - Gen Ed CRJS 210 - Diversity in Criminal Justice CRJS 240 - Intro. to Law Enforcement (15 Credits)

Second YEAR

FALL	SPRING
SOCI 203 - Social Problems CRJS 260 - Criminal Law Natural Science – Gen Ed (3 CR) CRJS 305 - Corrections Elective (3 CR) (15 Credits)	COMP 150 - Introduction to Computers COMM 102 – Fund. of Pubic Speaking SOCI 301 – Juvenile Delinquency Wellness – Gen Ed (3 CR) Elective (3 CR) (15 Credits)

PLEASE NOTE

- **This check sheet is only a guide. Requirements are subject to change** and students must meet with their advisors each semester prior to registration for guidance on academic progress and course offerings. This is a hypothetical 4 semester map. It is not expected or likely that any student would actually take the courses listed above in this specific sequence.
- **Graduation in two years requires** that students enroll in and pass 15 new credits each semester.
- Students in pursuit of the AA in CJ must take a total of 6 credits (two courses) in the 'Humanities' category. They must choose those two courses from two of the following categories: Literature, Philosophy, and A/M/T/D. Popular choices include ENGL 110, PHIL 102, and MUSI 101.
- General Education Requirements dictate that students must take a MATH course above MATH 100 to satisfy those requirements. Some students may be required to take a preparatory Math Course which they could use to satisfy one of their elective courses.
- Students in pursuit of the AA in CJC must take a total of 6 credits (two courses) of elective choice. These are any courses that the University offers.

Lock Haven University
Check Sheet of Requirements for AA in Criminal Justice

GENERAL EDUCATION		MAJOR	
COURSE	SEMESTER	COURSE	SEMESTER
Wellness		PSYC 100	
ENGL 100		SOCI 101	
HIST 101 or 102		SOCI 301	
MATH		CRJS 102	
COMM		CRJS 203	
Humanities		CRJS 210	
Humanities		CRJS 240	
Natural Science		CRJS 260	
Elective		CRJS 305	
Elective		COMP 150	

BACHELOR OF SCIENCE DEGREE IN CRIMINAL JUSTICE

Name _____

GENERAL EDUCATION			MAJOR	
	COURSE	SEMESTER		Semester
Wellness	_____	_____	COMP150	_____
ENGL 100	_____	_____	PSYC100	_____
MATH 107	_____	_____	CRJS205	_____
Speech	_____	_____	SOCI101	_____
Art/Music/Th/Dance	_____	_____	SOCI203	_____
Art/Music/Th/Dance	_____	_____	SOCI302	_____
Literature	_____	_____	CRJS102	_____
Philosophy	_____	_____	CRJS210	_____
History	_____	_____	CRJS240	_____
Poli Science/Economics	_____	_____	CRJS260	_____
PSYC 100	_____	_____	CRJS290	_____
SOCI 101	_____	_____	CRJS305	_____
Lab Science I	_____	_____	CRJS320	_____
Lab Science II	_____	_____	CRJS360	_____
			CRJS 490	_____
			CRJS425	_____
<p>General Education Elective Courses: (10 credits required) Note: Students may split one 3 credit course between General Education Electives and Criminal Justice Electives</p>			<p>Criminal Justice Electives: Note: A total of 14 credits are required. Students may split one 3 credit course between General Education Electives and Criminal Justice Electives.</p>	
Elective 1 (3 credits)	_____	_____		Course
Elective 2 (3 credits)	_____	_____	Elective 1 (3 credits)	_____
Elective 3 (3 credits)	_____	_____	Elective 2 (3 credits)	_____
Elective 4 (1 credit)	_____	_____	Elective 3 (3 credits)	_____
OVERLAY COURSES			Elective 4 (3 credits)	_____
Multicultural	1. _____	_____	Elective 5 (2 credits)	_____
	2. _____	_____		
Writing Emphasis	1. _____	_____	Career Component:	
	2. _____	_____	Note: A total of 12 credits are required.	
	3. _____	_____	3 credits	_____
Information Literacy	1. _____	_____	3 credits	_____
	2. _____	_____	3 credits	_____
External Experience	1. _____	_____		
	2. _____	_____		

(form revised 9/11)

Projected Schedule and Requirements for Bachelor of Science in Criminal Justice
Effective Fall Semester 2011

FRESHMAN YEAR

FALL	SPRING
CRJS 102 – Intro. to Criminal Justice SOCI 101 - Introduction to Sociology ENGL 100 - English Composition A/M/T/D - General Education HIST 101 or HIST 102 - World History (15 Credits)	PSYC 100 - Introduction to Psychology ENGL 110 - Literature MATH 107 - Basic Statistics CRJS 210 - Diversity in CJ CRJS 240 - Intro. to Law Enforcement (15 Credits)

SOPHOMORE YEAR

FALL	SPRING
SOCI 203 - Social Problems CRJS 260 - Criminal Law Natural Science – General Education POLI 210 – State & Local Government* Elective (3 CR) (15 Credits)	CRJS 205 - Drug Abuse COMP 150 - Introduction to Computers COMM 102 – Fund. of Pubic Speaking * PHIL 102 - Ethics * Elective (3 CR) (15 Credits)

JUNIOR YEAR

FALL	SPRING
SOCI 302 - Criminology CRJS 305 - Corrections Natural Science – General Education CRJS 320 - Juvenile Justice Elective (3 CR) (15 Credits)	CRJS 290 - World CJ Systems CRJS 360 - Criminal Procedure A/M/T/D – General Education Elective (3 CR) Elective (3 CR) (15 Credits)

SENIOR YEAR

FALL	SPRING
CRJS 425 - Senior Seminar Wellness – General Education CRJS 490 - Criminal Justice Research Elective (3 CR) Elective (3 CR) (15 Credits)	Elective (3 CR) Elective (3 CR) Elective (3 CR) Elective (3 CR) Elective (3 CR) (15 Credits)

PLEASE NOTE

- **This check sheet is only a guide. Requirements are subject to change** and students must meet with their advisors each semester prior to registration for guidance on academic progress and course offerings. This is a hypothetical 8 semester map. It is not expected or likely that any student would actually take the courses listed above in this specific sequence.
- **Graduation in four years requires** that students enroll in and pass 15 new credits each semester
- **Criminal Justice Majors must take a total of 36 credits (12 courses) of elective choice.** They may use this as an opportunity to develop one or more minors and/or engage in internship credit experience.
- **Internships are not required**, but are one way to satisfy elective credit. The University allows students to engage in no more than a total of 15 credits of internship as part of their academic course work that can be applied to degree requirements.
- Courses marked with asterisks (POLI 210, PHIL 102, SPCH 102) are recommended but not required. Students may take any course in those categories to satisfy the general education requirement.

**Requirements for the
Bachelor of Arts in English: Literature Concentration
(Revised Fall 2005)**

Name:

ID#:

Advisor:

Telephone #:

Email:

Advising Record

Date	Business Conducted	Advisor's Signature

Record of Tasks Required for Graduation

Task	Date Completed
Complete "Declaration of Concentration" form with signatures	
Check that general education requirements have been met	
Check that major requirements have been met	
Minimum of 120 semester hours earned/transferred	
Complete Graduation Application at Office of Enrollment Services	

General Education Requirements

For a list of courses that meet these requirements, see:

http://www.lhup.edu/academic/acad_affairs/general_education_course_list.htm

Requirement	Course Number/Name	s. h.	Date Completed	Grade
Composition	ENGL100	3		
Literature		3		
Philosophy		3		
Art/Music/Theater/Dance		3		
Art/Music/Theater		3		
Speech		3		
World History		3		
Gov/Econ		3		
Sociol/Anthro/Geog		3		
Psychology		3		
Lab Science		3		
Lab Science		3		
Mathematics		3		
Wellness		3		
Total General Education S.H.		42		

Electives

	Course Number/Name	s.h.	Date Completed	Grade
Elective		3		
Elective		3		
Elective		3		
Elective*		1		
Total Elective S.H.		10		

*Note: If you take a 3-credit course for the 2-credit English elective below (#7), the extra credit can count here.

Foreign Language Requirement

Up to 12 s.h.		3		
in foreign languages		3		
to satisfy level IV		3		
proficiency		3		
Total Foreign Language S.H.		12		

* If a student passes Level IV proficiency in fewer than 12 s.h., the additional hours become electives

Liberal Arts Seminars

---328 Humanities		3		
---328 Social Sciences		3		
---328 Math or Science		3		
Total Liberal Arts Seminar S.H.		9		

Other Requirements

Students are also responsible for meeting General Education requirements in Writing Emphasis (WE), Multicultural Emphasis (MC), Information Literacy (IL), and External Experiences (EE). Select courses wisely to meet these requirements. These courses can count as overlays as well as General Education or Major courses.

Designation	Course Number/Name	s.h.	Date Completed	Grade
WE-1				
WE-2				
WE-3				
MC-1				
MC-2				
IL-1				
IL-2				
EE-1				
EE-2				

English Major Requirements

1. Foundation Course	Course Number/Name	s.h.	Date Completed	Grade
ENGL 205 Introduction to Literary Study	ENGL 205	3		
Total Foundation S.H.		3		

2. English Literature	Course Number/Name	s.h.	Date Completed	Grade
a. ENGL 230 Engl. Lit Before 1800	ENGL 230	3		
b. ENGL 231 Engl. Lit After 1800	ENGL 231	3		
c. ENGL 336 Shakespeare		3		
Total English Lit. S.H.		9		

3. American Literature	Course Number/Name	s.h.	Date Completed	Grade
a. ENGL 240 American Lit. Before the Civil War	ENGL 240	3		
b. ENGL 242 American Lit. After the Civil War	ENGL 242	3		
Total American Lit. S.H.		6		

4. World Literature	Course Number/Name	s.h.	Date Completed	Grade
a. ENGL 220 World Literature	ENGL 220	3		
b. ENGL 225 Core Texts in the Western Tradition	ENGL 225	3		
Total World Literature S.H.		6		

5. Writing	Course Number/Name	s.h.	Date Completed	Grade
One Course from the following: ENGL 258 Business Writing ENGL 264 Fiction Workshop ENGL 266 Drama Workshop ENGL 268 Poetry Workshop ENGL237 Creative Nonfiction Workshop ENGL408 Advanced Topics in Creative Writing ENGL 360 Technical Writing		3		
Total Writing S.H.		3		

6. Literature Electives	Course Number/Name	s.h.	Date Completed	Grade
15 credits from the following: ENGL328 Topics in Literary Study; ENGL 400 Advanced Topics in British Lit; ENGL 402 Advanced Topics in American Literature; ENGL 404 Advanced Topics in World Lit; ENGL 425 Major American Writers; ENGL 435 Major British Writers ***Note: All of these courses can be taken up to 3 times, as long as the topic is different.		3		
		3		
		3		
		3		
		3		
Total Literature S.H.		15		

7. English Electives	Course Number/Name	s.h.	Date Completed	Grade
5 credits of either 300-400-level literature courses or 200-400 writing courses. ***Note: These 5 credits can be all literature, all writing, or a mixture of the two. ***Note: If you take a 3-credit course for the 2-credit English elective, the extra credit can be counted as an GenEd elective.		3		
		2		
Total English Elective S.H.		5		

**Requirements for the
Bachelor of Arts in English: Writing Concentration
(Revised Fall 2005)**

Name: _____ ID#: _____ Advisor: _____
 Telephone #: _____ Email: _____

Advising Record

Date	Business Conducted	Advisor's Signature

Record Of Tasks Required For Graduation

Task	Date Completed
Check that general education requirements have been met	
Check that major requirements have been met	
Minimum of 120 semester hours earned/transferred	
Complete Graduation Application at Office of Enrollment Services	

General Education Requirements

For a list of courses that meet these requirements, see:

http://www.lhup.edu/academic/acad_affairs/general_education_course_list.htm

Requirement	Course Number/Name	s. h.	Date Completed	Grade
Composition		3		
Literature		3		
Philosophy		3		
Art/Music/Theater		3		
Art/Music/Theater		3		
Speech		3		
World History		3		
Gov/Econ		3		
Sociol/Anthro/Geog		3		
Psychology		3		
Lab Science		3		
Lab Science		3		
Mathematics		3		
Wellness		3		
Total General Education S.H.		42		

Electives

Course Number/Name	s.h.	Date Completed	Grade
Elective	3		
Elective	3		
Elective	3		
Elective*	1		
Total Elective S.H.	10		

*Note: If you take a 3-credit course for the 2-credit English elective below (#5), the extra credit can count here.

Foreign Language Requirement

Up to 12 s.h. in foreign languages to satisfy level IV proficiency	3		
	3		
	3		
	3		
Total Foreign Language S.H.	12		

* If a student passes Level IV proficiency in fewer than 12 s.h., the additional hours become electives

Required Liberal Arts Seminars

---328 Humanities	3		
---328 Social Sciences	3		
---328 Math or Science	3		
Total Liberal Arts Seminar S.H.	9		

Other Requirements

Students are also responsible for meeting General Education Overlays in Writing Emphasis (WE), Multicultural Emphasis (MC), Information Literacy (IL), and External Experiences (EE). These courses can count as overlays as well as General Education or Major courses.

Overlay	Course Number/Name	s.h.	Date Completed	Grade
WE-1				
WE-2				
WE-3				
MC-1				
MC-2				
IL-1				
IL-2				
EE-1				
EE-2				

English Requirements

1. Foundation Courses	Course Number/Name	s.h.	Date Completed	Grade
ENGL 205 Introduction to Literary Study	ENGL205	3		
b. ENGL 225 Core Texts in the Western Tradition	ENGL225	3		
Total Foundation S.H.		6		

2. Literature Courses	Course Number/Name	s.h.	Date Completed	Grade
a. ENGL 230 Eng. Lit Before 1800 or ENGL 231 Eng. Lit After 1800		3		
b. ENGL 240 Am. Lit Before the Civil War or ENGL 242 Am. Lit After the Civil War		3		
c. Four 300- or 400-level literature courses		3		
		3		
		3		
		3		
Total Literature S.H.		18		

3. Writing Courses	Course Number/Name	s.h.	Date Completed	Grade
a. ENGL 315 Comp: Usage & Editing	ENGL315	3		
b. ENGL 357 Rhetoric & Writing	ENGL357	3		
c. Two of the following: ENGL 258 Business Writing ENGL 264 Fiction Workshop ENGL 266 Drama Workshop ENGL 268 Poetry Workshop ENGL237 Creative Nonfiction Workshop ENGL408 Advanced Topics in Creative Writing ENGL 360 Technical Writing		3		
		3		
Total Writing S.H.		12		

4. Specialty Courses	Course Number/Name	s.h.	Date Completed	Grade
For these credits, you may take additional English literature, writing, or education courses, or courses outside of the major that are approved by your advisor. Those interested in technical writing or business might take science or business courses. Possible courses might include ART 110 (Color and Two-Dimensional Design), MANG 101 (Intro to Management Information Systems), JOUR 190 (News writing), JOUR 290 (News Reporting), or JOUR 390 Feature Writing.		3		
		3		
	Total Specialty S.H.	6		

5. English Electives	Course Number/Name	s.h.	Date Completed	Grade
Five credits of 200-level or above English courses. ***Note: If you take a 3-credit course for the 2-credit English elective, the extra credit can be counted as an GenEd elective.		3		
		2		
	Total English Electives	5		
	Total English S.H.	47		
	Total Program S.H.	120		

B.A. in Foreign Languages, French Track

A. Core Requirements (total of 9 s.h)

- FREN 203 French Civilization I (3 s.h.) or FREN 204 French Civilization II (3 s.h.)
- FREN 303 French Literature I (3 s.h.) or FREN 304 French Literature II (3 s.h.)
- FREN 3XX Francophone Identities (3 s.h.)

B. Study Abroad (6-9 s.h.)

- (6 to 9 s.h.) Summer Immersion Program and/or Regular Semester Program

* must be scheduled with advisor and completed after FREN202. Additional courses, up to 15 total credits, may be transferred provided they have LHU equivalent courses.

C. Area Electives (6-9 s.h.)

- FREN 203 French Civilization I (if not completed as a requirement)
- FREN 204 French Civilization II (if not completed as a requirement)
- FREN 301 French Composition and Conversation I
- FREN 303 French Literature I (if not completed as a requirement)
- FREN 304 French Literature II (if not completed as a requirement)
- FREN 305 French Linguistics
- FREN 306 Current French Periodicals
- FREN 310 Advanced French Grammar
- FREN 328 French Cinema
- FREN 499 French Independent Study
- Any other approved course beyond level IV taken abroad or through LHU Distance Education Exchange Agreement with Clarion University and Slippery Rock University.

* Sections B+C should total 15 s.h. of coursework taught in French.

D. Area Requirements—double majors exempt (12 s.h.)

Four courses in a second foreign language as determined by a placement test

E. Foreign Language Core Seminar—double majors exempt (3 s.h.)

- LANG 328 Francophone & Hispanic Cultures through Film (3 s.h.)

F. Free Electives (8 s. h.)

G. Oral Proficiency Test—double majors exempt. Students are required to take the OPI test administered by ACTFL (American Council on the Teaching of Foreign Languages). It should be taken during the last semester before graduation at LHU.

B.A. in Foreign Languages, Spanish Track

A. Core Requirements (total of 9 s.h)

___ SPAN 203 Culture of Spain (3 s.h.) or ___ SPAN 204 Hispanic American Culture (3 s.h.)

* Students completing their study abroad program in Spain must register for SPAN 204 and students completing the study abroad in Hispanic America must register for SPAN203

___ SPAN307 Introduction to Spanish Literature (3 s.h.)

___ SPAN308 Introduction to Spanish American Literature (3 s.h.)

B. Study Abroad (6-9 s.h.)

___ (6 to 9 s.h.) Summer Immersion Program and/or Regular Semester Program

* must be scheduled with Advisor and completed immediately after SPAN202. Additional courses, up to 15 total credits, may be transferred provided they have LHU equivalent courses.

C. Area Electives (6-9 s.h.)

___ SPAN 205 Beginning Spanish Composition and Conversation

___ SPAN300 Advanced Conversation Through Hispanic Film

___ SPAN 203 Culture of Spain (if not completed as a requirement)

___ SPAN 204 Hispanic American Culture (if not completed as a requirement)

___ SPAN312 Advanced Spanish

___ SPAN314 Spanish Phonetics/Linguistics

___ SPAN318 Spanish Drama Masterpieces

___ SPAN320 Contemporary Spanish Women's Fictions

___ SPAN322 Spanish American Regional Narrative

___ SPAN323 Spanish American Contemporary Narrative

___ SPAN499 Spanish Independent study

___ Any other approved course beyond level IV

*Sections B+C should total 15 s.h. of coursework taught in Spanish.

D. Area Requirements—double majors exempt (12 s.h.)

Four courses in a second foreign language as determined by a placement test

E. Foreign Language Core Seminar—double majors exempt (3 s.h.)

___ LANG 328 Francophone & Hispanic Cultures through Film (3 s.h.)

F. Free Electives (total of 8 s. h.)

G. Oral Proficiency Test—double majors exempt. Students are required to take the OPI test administered by ACTFL (American Council on the Teaching of Foreign Languages). It should be taken during the last semester before graduation at LHU.

B.S. Ed. Secondary Education, General Science

Lock Haven University of Pennsylvania

REQUIREMENTS / ADVISING SHEET – 129 credits

Name _____ Entry Date _____ Student ID _____

A. General Education

		sh	Course	Date	minGrade
I. Wellness		3 sh			C- _____
II. Skills	English Composition	3 sh	<u>ENGL100-Composition</u>	_____	_____
	Mathematics	3 sh	<u>*Math113-PreCalculus</u>	_____	C _____
	Speech	3 sh	_____	_____	C- _____
III. Content					
A. Humanities	Art/Music/Theater/Dance	6 sh	_____	_____	_____
	Literature	3 sh	_____	_____	_____
	Philosophy	3 sh	_____	_____	_____
B. Social Sciences	World History	3 sh	_____	_____	C- _____
	Poli Sci or Economics	3 sh	_____	_____	_____
	Psychology	3 sh	<u>PSYC103-Adol. Devel.</u>	_____	C _____
	Sociology, Anthropology, or Geography.	3 sh	_____	_____	_____
C. Natural Sciences		6 sh	<u>BIOL106-Prin of Bio I</u>	_____	C _____
			<u>BIOL107-Prin of Bio II</u>	_____	C _____

* If the math placement test places the student into Math 141 (Calculus), then MATH 107 (Statistics) should be chosen to satisfy the Gen. Ed. Math requirement. 6 s.h. of Math are required by PDE.

IV. Electives**

Course	sh	Date	Grade
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**10 s.h. must be satisfied using the 12 required science electives on page 2.

V. Additional Overlay Requirements

	Course	Course	Course
A. Multicultural (MC) 2 courses	<u>Sociology or Anthropology and World History</u>		
B. Information Literacy (IL) 2 courses	<u>SCI493</u>	<u>SCI494</u>	_____
C. Writing Emphasis (WE) 3 courses	<u>BIOL107</u>	<u>GEOS 131</u>	<u>SCI493</u> <u>SCI494</u>
D. External Experience (EE) 2 units	Fulfilled by Student Teaching and Practicum, SCI493, 494		

B. Professional Education

		sh	Date	min	Grade
	SPEC 204 Cognitive Development of Diverse Learners	3 sh	_____	C	_____
	SPEC 202 Cultural/Linguistic Diversity in Education	3 sh	_____	C	_____
	SPEC 345 Literacy Instr. for Stud.w/Disabilities	3 sh	_____	C	_____
	SPEC 309 Effect. Inst. Strat. for Stud. w/Disabilities	3 sh	_____	C	_____
Block I	SCI209 Science Methods I	3 sh	_____	C	_____
	PSYC201 Educational Psychology	3 sh	_____	C	_____
Block II	SCI315 Science Methods II	4 sh	_____	C	_____
	EDUC312 Classroom Management	2 sh	_____	C	_____
Student Teaching	SCI493 Std. Teaching & Practicum I (IL, WE, EE)	6 sh	_____	C	_____
	SCI494 Std. Teaching & Practicum II (IL, WE, EE)	6 sh	_____	C	_____

B.S. Ed. Secondary Education, General Science
 Lock Haven University of Pennsylvania
REQUIREMENTS / ADVISING SHEET – 129 credits

C. Area of Specialization

41 sh

I. Required Courses in Science

	sh	Date	minGrade
BIOL106-Principles of Biology I (counted as Gen. Ed.)			
BIOL107-Principles of Biology II (counted as Gen. Ed.)			
CHEM120-Principles of Chemistry I	4 sh	_____	C _____
CHEM121-Principles of Chemistry II	4 sh	_____	C _____
MATH141-Calculus I/or MATH 107 Statistics	3 sh	_____	C _____
PHYS130- Physics I	4 sh	_____	C _____
PHYS131- Physics II	4 sh	_____	C _____
GEOS130-Principles of Geology I	3 sh	_____	C _____
PHYS 135-Meteorology	3 sh	_____	C _____
GEOS120-Oceanography	3 sh	_____	C _____
PHYS 140-Astronomy of the Solar System	3 sh	_____	C _____
GEOS131-Principles of Geology II	3 sh	_____	C _____
GEOS 230 Geomorphology	3 sh	_____	C _____
GEOS 260 Geology Field Trip (two, 1 credit each)	2 sh	_____	C _____

II. Science Electives from 100+ level – 12 sh

Courses designed as non-science general education courses cannot be used to satisfy these requirements.
 10 s.h. will be counted as General Education Electives A-IV on previous page.

Course	sh	Date	Grade
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

B.S. Ed. Secondary Education, General Science
 Lock Haven University of Pennsylvania
REQUIREMENTS / ADVISING SHEET – 129 credits

Record of Tasks Required for Graduation and Certification

Task	Date Completed
Stage I: To Achieve Official Candidacy into the Teacher Education Program at LHUP	
Achieve overall GPA of 3.0 and GPA of 3.0 in your major (*)	
Complete 48 semester hours of coursework	
Complete 6 credits of English and 6 credits of Math with no grade lower than a C- (Minimum grade may be a “C” in some disciplines)	
Complete an Entrance Essay	
Complete a Diversity Profile Plan with your Program Coordinator (co-advisor)	
Have Communication and Disposition Forms completed for you by (3) general education faculty members	
Obtain Liability Insurance (via membership in a professional association or through personal insurance provider)	
Obtain Act 34 (Criminal Background) and Act 151 (Child Abuse History) Clearances	
Complete a Technology Self-assessment	
Obtain negative TB test (available from Glennon Infirmary)	
Stage II: To Be Permitted to Enroll in Upper Level Education Courses	
Achieve overall GPA of 3.0 and GPA in your major of 2.8 (science and math only)	
Achieve passing scores on the PRAXIS I exams (reading, writing, math)	
Achieve a C- or Better in Speech and History (no grade lower than a “C” is permitted in any required course)	
Maintain Liability Insurance via Membership in a Professional Association	
Maintain Act 34 (Criminal Background) and Act 151 (Child Abuse History) Clearances	
Maintain negative TB test (available from Glennon Infirmary)	
Complete 36 hours of field experiences (Obtained during Block I)	
Complete 20 hours of diversity field experiences (10 hours obtain during Block I, 10 based on individual program requirements)	
Have Communication and Disposition Forms completed for you by (3) program faculty members	
Produce and present a Developing Portfolio	
Stage III: To Be Considered by LHUP for Recommendation for Teacher Certification in PA	
Achieve overall GPA of 3.0 and GPA in your major of 2.8 (science and math only)	
Achieve passing scores on the PRAXIS II exam (content specialty area)	
Achieve a C or Better in all required courses	
Complete an additional 20 Hours of Diversity Field Experience (in either Block II or during student teaching)	
Produce and present a Senior Portfolio	
Produce a Teacher Work Sample in one of your Student Teaching Placements	
Have Communication and Disposition Forms completed for you by (2) Cooperating Teachers and your University Supervisor	
Successfully complete (2) student teaching placements	
Receive passing scores on PDE-430 form for each student teaching placement	

*The major GPA may be lower in high need areas such as science and math. You can achieve candidacy without meeting this requirement. However, one’s timeline for graduation is likely to be considerably longer than 4 years.

This program meets National Science Teacher Association (NSTA) national certification standards.

**SUGGESTED COURSE OF STUDY FOR
BS Ed. Secondary Education, General Science**

SEMESTER	SH	SEMESTER	SH
Fall Freshman Year		Spring Freshman Year	
GEOS 130 Principles of Geology I	3	GEOS 131 Principles of Geology II	3
CHEM120 Principles of Chemistry I	4	CHEM121 Principles of Chemistry II	4
GEN ED	3	PSYC103 Adolescent Development	3
English Composition	3	MATH ____	3
GEN ED	-3	Literature	3
	16		16
Fall Sophomore Year		Spring Sophomore Year	
BIOL106 Principles of Biology I	3	BIOL107 Principles of Biology II	3
PHYS 130 Physics I	4	PHYS 131 Physics II	4
MATH ____	3	GEN ED	3
GEN ED	3	<u>Secondary Block I</u>	
SPEC 204 Cog. Dev.of Diverse Learners	3	SCI209 Science Methods I	3
GEOS 260 Geology Field Trip	1	PSYC201 Educational Psychology	3
	17	GEOS 260 Geology Field Trip	1
			17
Fall Junior Year		Spring Junior Year	
PHYS 135 Meteorology	3	GEOS 120 Oceanography	3
PHYS 140 Astronomy I	3	Science Elective	3
GEOS 230 Geomorphology	3	Science Elective	3
GEN ED	3	GEN ED	3
SPEC 202 Cult./Ling. Div. in Edu	3	GEN ED	3
GEN ED	3	SPEC 345 Literacy Instr. Stud.w/Disa.	3
	18		18
Fall Senior Year		Spring Senior Year	
Science Elective	3	SCI493/494 Student Teaching & Practicum	12
Science Elective	3		3
<u>Secondary Block II</u>			
SCI 315 Science Methods II	4		12
EDUC312 Classroom Management	2		
SPEC 309 Effect. Instr. Strat. Stud. w/Disa.	3		
	15		

NAME _____

DATE _____

BS GEOLOGY - WATER & ENVIRONMENT CONCENTRATION

PROGRAM CHECKLIST

LOCK HAVEN UNIVERSITY OF PENNSYLVANIA

(GRADUATION: REQUIRED MINIMUM—120 SEMESTER HOURS)

I ARTS & SCIENCE GENERAL EDUCATION REQUIREMENTS 52 sh **A. HUMANITIES 18 sh**

- Art, Music, Theater (3) _____
- Art, Music, Theater (3) _____
- Philosophy (3) _____
- Composition (3) _____
- Literature (3) _____
- Speech (3) _____

B. SOCIAL AND BEHAVIORAL SCIENCES 12 sh

- Government or Economics (3) _____
- Anthropology or Sociology (3) _____
- History (3) _____
- Psychology (3) _____

C. NATURAL SCIENCE AND MATHEMATICS 9 sh

- Laboratory Science (6) GEOS 130 GEOS131 _____
- Mathematics (Math113) (3) _____

D. HEALTH, PHYSICAL EDUCATION AND RECREATION 3 sh

- Health, Physical Education, or Recreation (3) _____

E. ELECTIVES - RECOMMENDED 10 sh (May **not** include courses counted above. May include courses in the major or supporting areas.)

ENVT 1XX Environmental Studies (3) GEOG 180 Urban Geography (3)

ENGL 150 Introduction to Communication (3)

II SUPPORTING REQUIREMENTS 14 sh

- | | |
|------------------------------|--------------------------------|
| BIOL 106 Biology I _____(3) | CHEM 120 Chemistry I _____(4) |
| BIOL 107 Biology II _____(3) | CHEM 121 Chemistry II _____(4) |

III CORE REQUIREMENTS 42 sh

- | | |
|--|--|
| GEOS 120 Oceanography _____(3) | GEOS451 Coastal Env. Oceanography _____(3) |
| GEOS 213 Introduction to GIS _____(3) | GEOS 313 Advanced GIS _____(3) |
| GEOS 215 Environmental Geology _____(3) | |
| GEOS 230 Geomorphology _____(3) | GEOS 315 Sedimentology _____(3) |
| GEOS 260 Geology Field Trip (1 sh/each) _____(4) | GEOS 305 Mineralogy & Petrology _____(4) |
| GEOS 360 Hydrogeology _____(4) | GEOS 361 Aq. Env. Geochemistry _____(3) |
| GEOS369 Internship/Field Camp _____(4) | GEOS490 Capstone Research Project _____(2) |

IV SCIENCE ELECTIVES 200+LEVEL—RECOMMENDED 6 sh

- | | |
|---|--|
| GEOS 301 Invert. Paleontology _____(3) | GEOS 450 Geophysics & Tectonics _____(4) |
| GEOS 328 Science Seminar (Water) _____(3) | BIOL108 Field Natural History (3) |
| GEOS415 Stratigraphy _____(3) | BIOL 309 Ecology (3) |
| GEOS430 Structural Geology _____(3) | BIOL 415 Environmental Policy & Regulation (3) |
| GEOS 499 Independent Study _____(-) | |

V NON-SCIENCE ELECTIVES 200+ LEVEL—RECOMMENDED 6 sh

- | | |
|---|--|
| ECON 301 Economics of the Environment (3) | ENGL 360 Technical Writing (3) |
| ECON301 Economics of the Environment (3) | RECR 320 Interpreting Environment (3) |
| JOUR 300 Environmental Journalism (3) | PHIL400 Ethics and the Environment (3) |
| GEOG305 Conservation of Natural Resources (3) | |

08/01/11

BS GEOLOGY - GEOGRAPHY/GIS CONCENTRATION

PROGRAM CHECKLIST

LOCK HAVEN UNIVERSITY OF PENNSYLVANIA

(GRADUATION: REQUIRED MINIMUM—120 SEMESTER HOURS)

I ARTS & SCIENCE GENERAL EDUCATION REQUIREMENTS 52 sh

A. HUMANITIES 18 sh

- Art, Music, Theater (3) _____
- Philosophy (3) _____
- Literature (3) _____
- Art, Music, Theater (3) _____
- Composition (3) _____
- Speech (3) _____

B. SOCIAL AND BEHAVIORAL SCIENCES 12 sh

- Government or Economics (3) _____
- History (3) _____
- Anthropology or Sociology (3) _____
- Psychology (3) _____

C. NATURAL SCIENCE AND MATHEMATICS 9 sh

- Laboratory Science (6) GEOS 130 GEOS131
- Mathematics (Math113) (3) _____

D. HEALTH, PHYSICAL EDUCATION, AND RECREATION 3 sh

- Health, Physical Education, or Recreation (3) _____

E. ELECTIVES 10 sh

(May **not** include courses counted above. May include courses in the major or supporting areas.)

II SUPPORTING REQUIREMENTS 9 sh

- BIOL 106 Principles of Biology 1 _____(3)
- GEOG 110 Physical Geography _____(3)
- PHYS 135 Meteorology _____(3)

III CORE REQUIREMENTS 23 sh

- GEOS 120 Oceanography _____(3)
- GEOS 213 Introduction to GIS _____(3)
- GEOS 313 Advanced GIS _____(3)
- GEOS 230 Geomorphology _____(3)
- GEOS 215 Environmental Geology _____(3)
- GEOS 260 Geology Field Trip (1 sh/each) ___(3)
- GEOS 451 Coastal Envir. Oceanography _____(3)
(Offered over Summer at Wallops Island, Va.)
- GEOS490 Capstone Research Project _____(2)

IV SCIENCE ELECTIVES 200+ LEVEL 9 sh

V NON-SCIENCE ELECTIVES 200+ LEVEL 9 sh

VI SUPPORTING GEOGRAPHY 200+ LEVEL 18 sh

BS GEOLOGY - ENGINEERING GEOLOGY CONCENTRATION**PROGRAM CHECKLIST**

LOCK HAVEN UNIVERSITY OF PENNSYLVANIA

(GRADUATION: REQUIRED MINIMUM—120 SEMESTER HOURS)

I ARTS & SCIENCE GENERAL EDUCATION REQUIREMENTS 52 sh **A. HUMANITIES 18 sh**

- Art, Music, Theater (3) _____
- Art, Music, Theater (3) _____
- Philosophy (3) _____
- Composition (3) _____
- Literature (3) _____
- Speech (3) _____

B. SOCIAL AND BEHAVIORAL SCIENCES 12 sh

- Government or Economics (3) _____
- Anthropology or Sociology (3) _____
- History (3) _____
- Psychology (3) _____

C. NATURAL SCIENCE AND MATHEMATICS 9 sh

- Laboratory Science (6) GEOS 130 GEOS131 _____
- Mathematics (Math141) (3) _____

D. HEALTH, PHYSICAL EDUCATION, AND RECREATION 3 sh

- Health, Physical Education, or Recreation (3) _____

E. ELECTIVES 10 sh (May **not** include courses counted above. May include courses in the major or supporting areas.)**RECOMMENDED AS POSSIBLE GENERAL EDUCATION ELECTIVES**

- | | |
|---|--|
| GEOS 120 Oceanography _____ (3) | ENGL 150 Introduction to Communication _____ (3) |
| ECON 301 Economics of the Environment _____ (3) | GEOG 180 Urban Geography _____ (3) |
| ENGL 360 Technical Writing _____ (3) | |

II SUPPORTING REQUIREMENTS 22 sh

- | | |
|---|---|
| MATH 141 Calculus II _____ (3) | PHYS 170 Intermediate PHYS I _____ (4) |
| PHYS 105 Engineering Graphics _____ (3) | PHYS 171 Intermediate PHYS II _____ (4) |
| CHEM 120 Chemistry I _____ (4) | |
| CHEM 121 Chemistry II _____ (4) | |

III CORE REQUIREMENTS 34 sh

- | | |
|---|---|
| GEOS 213 Introduction to GIS _____ (3) | GEOS360 Hydrogeology _____ (4) |
| GEOS 313 Advanced GIS _____ (3) | GEOS369 Internship/Field Camp _____ (4) |
| GEOS 230 Geomorphology _____ (3) | GEOS430 Structural Geology _____ (4) |
| GEOS 260 Geology Field Trip (1 sh/each) _____ (3) | GEOS 450 Geophysics & Tectonics _____ (4) |
| GEOS 420 Geology of Energy & Min. Res _____ (4) | GEOS490 Capstone Research Project _____ (2) |

IV GEOLOGY ELECTIVES 200+ LEVEL—RECOMMENDED 6 sh

- | | |
|---|--------------------------------------|
| GEOS 215 Environmental Geology _____ (3) | GEOS415 Stratigraphy _____ (3) |
| GEOS 305 Mineralogy & Petrology _____ (4) | GEOS 499 Independent Study _____ (-) |
| GEOS 315 Sedimentology _____ (3) | |
| GEOS 361 Aq. Env. Geochemistry _____ (3) | |

V SCIENCE ELECTIVES 200+ LEVEL 6 sh

- _____
- _____
- _____
- _____

BS GEOLOGY - APPLIED GEOLOGY CONCENTRATION**PROGRAM CHECKLIST**

LOCK HAVEN UNIVERSITY OF PENNSYLVANIA

(GRADUATION: REQUIRED MINIMUM—120 SEMESTER HOURS)

I ARTS & SCIENCE GENERAL EDUCATION REQUIREMENTS 52 sh **A. HUMANITIES 18 sh**

- Art, Music, Theater (3) _____
- Art, Music, Theater (3) _____
- Philosophy (3) _____
- Composition (3) _____
- Literature (3) _____
- Speech (3) _____

B. SOCIAL AND BEHAVIORAL SCIENCES 12 sh

- Government or Economics (3) _____
- Anthropology or Sociology (3) _____
- History (3) _____
- Psychology (3) _____

C. NATURAL SCIENCE AND MATHEMATICS 9 sh

- Laboratory Science (6) GEOS 130 GEOS131 _____
- Mathematics (Math141) (3) _____

D. HEALTH, PHYSICAL EDUCATION, AND RECREATION 3 sh

- Health, Physical Education, or Recreation (3) _____

E. ELECTIVES 10 sh (May **not** include courses counted above. May include courses in the major or supporting areas.)**RECOMMENDED AS POSSIBLE GENERAL EDUCATION ELECTIVES**

- | | |
|---|--|
| GEOS 120 Oceanography _____ (3) | ENGL 150 Introduction to Communication _____ (3) |
| ECON 301 Economics of the Environment _____ (3) | GEOG 180 Urban Geography _____ (3) |
| ENGL 360 Technical Writing _____ (3) | |

II SUPPORTING REQUIREMENTS 22 sh

- | | |
|---------------------------------|---------------------------|
| BIOL 106 Biology I _____ (3) | PHYS130 PHYS I _____ (4) |
| BIOL 107 Biology II _____ (3) | PHYS131 PHYS II _____ (4) |
| CHEM 120 Chemistry I _____ (4) | |
| CHEM 121 Chemistry II _____ (4) | |

III CORE REQUIREMENTS 37 sh

- | | |
|---|---|
| GEOS 213 Introduction to GIS _____ (3) | GEOS360 Hydrogeology _____ (4) |
| GEOS 230 Geomorphology _____ (3) | GEOS369 Internship/Field Camp _____ (4) |
| GEOS 260 Geology Field Trip (1 sh/each) _____ (4) | GEOS415 Stratigraphy _____ (3) |
| GEOS 301 Invert. Paleontology _____ (3) | GEOS430 Structural Geology _____ (4) |
| GEOS 305 Mineralogy & Petrology _____ (4) | GEOS490 Capstone Research Project _____ (2) |
| GEOS 315 Sedimentology _____ (3) | |

IV GEOLOGY ELECTIVES 200+ LEVEL—RECOMMENDED 9 sh

- | | |
|---|---|
| GEOS 215 Environmental Geology _____ (3) | GEOS 450 Geophysics & Tectonics _____ (4) |
| GEOS 313 Advanced GIS _____ (3) | GEOS451 Coastal Env. Oceanography _____ (3) |
| GEOS 361 Aq. Env. Geochemistry _____ (3) | GEOS 499 Independent Study _____ (-) |
| GEOS 420 Geology of Energy & Min. Res _____ (4) | |

B.S. Ed. Secondary Education, Earth & Space Science

Lock Haven University of Pennsylvania

REQUIREMENTS / ADVISING SHEET – 129 credits

Name _____ Entry Date _____ Student ID _____

A. General Education

52 sh

	Sh	Courses	Year & Semester	min	Grade
I. Wellness	3 sh	_____	_____		
II. Skills					
English Composition	3 sh	English Composition	_____		
Mathematics	3 sh	MATH113 Elem Func.	_____	C	
Speech	3 sh	_____	_____	C-	
III. Content					
A. Humanities					
Art/Music/Theater/Dance	6 sh	_____	_____		
Literature	3 sh	_____	_____		
Philosophy	3 sh	_____	_____		
B. Social Sciences					
World History	3 sh	_____	_____	C-	
Poli. Sci. or Economics	3 sh	_____	_____		
Sociology, Anthropology, Or Geography	3 sh	_____	_____		
Psychology	3 sh	PSYC103 Adol. Dev.	_____	C	
C. Natural Sciences					
	3 sh	GEOS130 Prin. Geol. I	_____	C	
	3 sh	GEOS131 Prin. Geol. II	_____	C	
IV. Electives (Recommended)	10 sh				
Biology	3 sh	BIOL106 Prin. Bio.	_____	C	
Chemistry	4 sh	CHEM120 Prin. Chem.	_____	C	
Mathematics	3 sh	MATH141 Calculus I	_____	C	
V. Additional Overlay Requirements					
A. Multicultural Emphasis (MC)	2 courses				
Soc. or Anthro. / World History		_____	_____		
B. Information Literacy (IL)	2 courses				
Std. Teach & Practicum I		SCI 493	_____		
Std. Teach & Practicum I		SCI 494	_____		
C. Writing Emphasis (WE)	3 courses				
Std. Teach & Practicum I		SCI 493	_____		
Std. Teach & Practicum II		SCI 494	_____		
Historical Geology		GEOS 131	_____		
D. External Experience (EE)	2 units				
Fulfilled by Student Teaching and Practicum --		SCI 493, SCI 494			

B. Professional Education

36 sh

	Course	sh	Date	min	Grade
	SPEC 204 Cognitive Development of Diverse Learners	3 sh	_____		C
	SPEC 202 Cultural/Linguistic Diversity in Education	3 sh	_____		C
	SPEC 345 Literacy Instr. for Stud.w/Disabilities	3 sh	_____		C
	SPEC 309 Effect. Inst. Strat. for Stud. w/Disabilities	3 sh	_____		C
Block I	SCI209 Science Methods I	3 sh	_____		C
	PSYC201 Educational Psychology	3 sh	_____		C
Block II	SCI315 Science Methods II	4 sh	_____		C
	EDUC312 Classroom Management	2 sh	_____		C
Student	SCI493 Std. Teaching & Practicum I (IL, WE, EE)	6 sh	_____		C
Teaching	SCI494 Std. Teaching & Practicum II (IL, WE, EE)	6 sh	_____		C

This program meets National Science Teacher Association (NSTA) national certification standards.

B.S. Ed. Secondary Education, Earth & Space Science

Lock Haven University of Pennsylvania

REQUIREMENTS / ADVISING SHEET – 129 credits

C. Area of Specialization – Supporting Science Courses 41 sh

	Sh	Year & Semester	min	Grade
I. Supporting Science				
CHEM121 Principles of Chemistry II	4 sh	_____	C	_____
PHYS130 Physics I	4 sh	_____	C	_____
PHYS131 Physics II	4 sh	_____	C	_____
PHYS135 Meteorology	3 sh	_____	C	_____
PHYS140 Astronomy of the Solar System	3 sh	_____	C	_____
II. Geology				
GEOS120 Oceanography	3 sh	_____	C	_____
GEOS215 Environmental Geology	3 sh	_____	C	_____
GEOS230 Geomorphology	3 sh	_____	C	_____
GEOS260 Geology Field Trip (3 required)	1 sh	_____	C	_____
	1 sh	_____	C	_____
	1 sh	_____	C	_____
GEOS300+ elective courses* totaling 11 semester hours				
*Recommended choices for GEOS 300+ electives				
GEOS301 Invertebrate Paleontology	3 sh	_____	C	_____
GEOS 313 Advanced GIS	3 sh	_____	C	_____
GEOS315 Mineralogy & Petrology	4 sh	_____	C	_____
GEOS360 Hydrogeology	4 sh	_____	C	_____
GEOS 361 Aqueous Environmental Geochemistry	3 sh	_____	C	_____
GEOS430 Structural Geology	4 sh	_____	C	_____
GEOS XXX Sedimentology	3 sh	_____	C	_____
GEOS 415 Stratigraphy	3 sh	_____	C	_____
NOTE: Certification in General Science is strongly recommended—requires this additional course				
BIOL107 Principles of Biology II (WE)	3 sh	_____	C	_____

B.S. Ed. Secondary Education, Earth & Space Science

Lock Haven University of Pennsylvania

REQUIREMENTS / ADVISING SHEET – 129 credits

Record of Tasks Required for Graduation and Certification

Task	Date Completed
Stage I: To Achieve Official Candidacy into the Teacher Education Program at LHUP	
Achieve overall GPA of 3.0 and GPA of 3.0 in your major (*)	
Complete 48 semester hours of coursework	
Complete 6 credits of English and 6 credits of Math with no grade lower than a C- (Minimum grade may be a “C” in some disciplines)	
Complete an Entrance Essay	
Complete a Diversity Profile Plan with your Program Coordinator (co-advisor)	
Have Communication and Disposition Forms completed for you by (3) general education faculty members	
Obtain Liability Insurance (via membership in a professional association or through personal insurance provider)	
Obtain Act 34 (Criminal Background) and Act 151 (Child Abuse History) Clearances	
Complete a Technology Self-assessment	
Obtain negative TB test (available from Glennon Infirmary)	
Stage II: To Be Permitted to Enroll in Upper Level Education Courses	
Achieve overall GPA of 3.0 and GPA in your major of 2.8 (science and math only)	
Achieve passing scores on the PRAXIS I exams (reading, writing, math)	
Achieve a C- or Better in Speech and History (no grade lower than a “C” is permitted in any required course)	
Maintain Liability Insurance via Membership in a Professional Association	
Maintain Act 34 (Criminal Background) and Act 151 (Child Abuse History) Clearances	
Maintain negative TB test (available from Glennon Infirmary)	
Complete 36 hours of field experiences (Obtained during Block I)	
Complete 20 hours of diversity field experiences (10 hours obtain during Block I, 10 based on individual program requirements)	
Have Communication and Disposition Forms completed for you by (3) program faculty members	
Produce and present a Developing Portfolio	
Stage III: To Be Considered by LHUP for Recommendation for Teacher Certification in PA	
Achieve overall GPA of 3.0 and GPA in your major of 2.8 (science and math only)	
Achieve passing scores on the PRAXIS II exam (content specialty area)	
Achieve a C or Better in all required courses	
Complete an additional 20 Hours of Diversity Field Experience (in either Block II or during student teaching)	
Produce and present a Senior Portfolio	
Produce a Teacher Work Sample in one of your Student Teaching Placements	
Have Communication and Disposition Forms completed for you by (2) Cooperating Teachers and your University Supervisor	
Successfully complete (2) student teaching placements	
Receive passing scores on PDE-430 form for each student teaching placement	

*The major GPA may be lower in high need areas such as science and math. You can achieve candidacy without meeting this requirement. However, one’s timeline for graduation is likely to be considerably longer than 4 years.

This program meets National Science Teacher Association (NSTA) national certification standards.

**SUGGESTED COURSE OF STUDY FOR
BS Ed. Secondary Education, Earth & Space Science**

Freshman - 1st Year--Fall			Freshman - 1st Year--Spring		
GEOS130	Princ. of Geology I	3 sh	GEOS131	Princ. of Geology II	3 sh
MATH113	Elementary Functions	3 sh	MATH141	Calculus I	3 sh
ENGL100	Composition	3 sh	ENGL110	Dimensions of Literature	3 sh
	World History	3 sh	PSYC103	Adolescent Development	3 sh
CHEM120	Principles of Chemistry	4 sh	CHEM121	Principles of Chemistry II	4 sh
Total		16 sh	Total		16 sh
Sophomore - 2nd Year--Fall			Sophomore - 2nd Year --Spring		
GEOS215	Environmental Geology	3 sh	GEOS300+	Invertebrate Paleontology or another GEOS 300+ elective	3 sh 1 sh
GEOS230	Geomorphology	3 sh	GEOS260	Geology Field Trip	4 sh
BIOL106	Principles of Biology	3 sh	PHYS131	Physics II	3 sh
PHYS130	Physics I	4 sh		Wellness	3 sh
SPEC 204	Cog. Dev.of Diverse Learners	3 sh		Secondary Block I	
GEOS260	Geology Field Trip	1 sh	SCI209	SCI 209 Science Methods I	3 sh
Total		17 sh	PSYC201	Educational Psychology	
Total		17 sh	Total		17 sh
Junior – 3rd Year--Fall			Junior – 3rd Year --Spring		
GEOS300+	Mineralogy & Petrology	4 sh		Political Science or Economics	3 sh
PHYS140	Astronomy	3 sh	GEOS120	Oceanography	3 sh
GEOS300+	Hydrogeology or another GEOS 300+ elective	4 sh		Anthropology/Sociology	3 sh
	Philosophy	3 sh		Art/Music/Theater	3 sh
SPEC 202	Cult./Ling. Div. in Edu	3 sh	SPEC 345	Literacy Instr. Stud.w/Disa. Speech	3 sh 3 sh
Total		17 sh	Total		18 sh
Senior – 4th Year--Fall			Senior – 4th Year--Spring		
GEOS260	Geology Field Trip	1 sh	SCI 493	Student Teach/Practicum I (EE)	6 sh
PHYS 135	Meteorology	3 sh	SCI 494	Student Teach/Practicum II (EE)	6 sh
	Art/Music/Theater	3 sh	Total		12 sh
	Secondary Block II		Total		12 sh
SCI315	Science Methods II	4 sh	Total		12 sh
EDUC312	Classroom Mgmt.	2 sh	Total		12 sh
SPEC 309	Effect. Instr. Strat. Stud. w/Disa.	3 sh	Total		12 sh
Total		16 sh	Total		12 sh

Lock Haven University
Department of Health Science
Bachelor of Science in Health Science / Applied Health Studies
For students enrolling LHU Fall 2008

HUMANITIES	12sh	Gr
Art/Music/Theatre	6	
Literature	3	
Philosophy	3	

CORE COURSES	25sh	Gr
HLTH307 Cultural Aspects of Health	3	
HLTH315 Consumer Health	3	
HLTH401 Current Issues in Health	3	
HLTH440 Research Methods for Entry level HS Professionals	3	
HLTH4xx Applied Health Science Capstone	1	
POLI330 Public Policy	3	
PHIL415 Ethical Issues in HCP (GEN ED)	3	
Health Science electives (300/400 level)	6	

SOCIAL BEHAVIORAL SCIENCES	12sh	
World History	3	
Political Science or Economics	3	
Psychology	3	
Sociology or Anthropology	3	

NATURAL SCIENCE	6sh	
Biological Sciences, Chemistry, Earth and Space Science, Geology or Physics	6	

WELLNESS	3sh	

SKILLS CORE	9sh	
English Composition	3sh	
Mathematics	3sh	
Speech	3sh	

ELECTIVES	10sh	

General Education Overlays

- 2 Multicultural** _____
- 3 Writing Emphasis** _____
- 2 Information Literacy** _____
- 2 External Experience** _____

Transfer of technical core from specific healthcare profession training program.	
Related Minor	

**The exact amount of transfer credits to award in the technical core will vary from program to program. LHU minors run from 18-21 credits, with some overlap in general education courses and specific degree requirements. The actual semester hour requirement will be held at 120 s.h.

Lock Haven University
Department of Health Science
Bachelor of Science in Health Science / Community Health
For students enrolling LHU Fall 2009

HUMANITIES	18sh	Gr	COMMUNITY HEALTH TRACK	63sh	Gr
Art/Music/Theatre	6		HLTH104 Foundations of Health Education	1.5	
			HLTH128 Anatomy & Physiology I	3	
Literature	3		HLTH129 A & P I Lab	1	
			HLTH130 Anatomy & Physiology II	3	
Philosophy	3		HLTH131 A & P II Lab	1	
Recom: PHIL415 Ethics in Healthcare			HLTH200 Introduction to Disease	3	
Composition	3		HLTH208 Stress Management/Life Skills for Health Promotion	3	
Speech	3		HLTH3XX Program Planning	3	
			HLTH215 Community Health	1.5	
SOCIAL BEHAVIORAL SCIENCES	12sh		HLTH307 Culture & Health	3	
World History	3		HLTH320 Drug Education OR HLTH 336 Teaching Drug Education**	3	
			HLTH330 School Health Programs	2	
Intro to Psychological Sciences	3		HLTH353 Physiology of Exercise	3	
			HLTH402 Eval in Hlth Ed & Hlth Promo	2	
Government/Economics	3		HLTH410 Community Health Org (F)	3	
			HLTH440 Research Methods in the Health Sciences	3	
			HLTH470 Sex Education OR HLTH 341 Teaching Human Sexuality**	3	
Sociology/Anthropology	3		HLTH485 Field Experience	9-12	
			RECR205 Nutrition for Wellness	3	
			Community Health Electives (see list below)	9	
NATURAL SCIENCE/MATH	9sh		**Community health students are required to take at least one Teaching of course.		
Principles of Biology I	3				
			COMMUNITY HEALTH ELECTIVES:		
Principles of Biology II	3		HLTH310 CPR/First Aid Instructor	3	
			HLTH315 Consumer Health	3	
Mathematics (Stat 107)	3		HLTH325 Death Education	3	
			HLTH401 Current Health Issues	3	
WELLNESS	3sh		HLTH415 Introduction to Pharmacology	3	
Introduction to Health	3		HLTH430 Women's Health Issues	3	
			HLTH499 Independent Study	1 -3	
ELECTIVES Students are encouraged to select courses most relevant to the intended work setting; also encouraged to take a 12 credit field experience and pursue a minor. Recommended minors are indicated below.	15sh		General Education Overlays 2 Multicultural _____ 3 Writing Emphasis _____ 2 Information Literacy _____ 2 External Experience _____	63sh	Gr

Revised 11/24/08

NOTE ON OTHER ELECTIVES

Community health students should pursue an area of expertise within health or a related field based upon their future goals. Students are encouraged to combine their general education requirements and general electives to pursue an academic minor.

Recommended minors include:

Anthropology

Business

Communication Media

Communication Studies

International Studies

Leadership Studies

Psychology

Sociology

Spanish

Sport & Exercise Psychology

**Lock Haven University Health Science Department
Community Health
Suggested Course Sequence**

Fall Freshman (example)

BIOL106 Principles of Biology I (3)
HLTH104 Foundations of Hlth Educ (1.5)
HLTH128 Anatomy & Physiology I (3)
HLTH129 Anatomy & Physiology Lab (1)
HLTH105 Introduction to Health (3)

Credit Total: _____

Spring Freshman (example)

BIOL 107 Principles of Biology II (3)
HLTH130 Anatomy & Physiology II (3)
HLTH131 Anatomy & Physiology Lab (1)
HLTH215 Community Health (1.5)

Credit Total: _____

Fall Sophomore (example)

HLTH208 Stress Mgmt/Life Skills (3)
HLTH3xx Program Planning (3)
HLTH307 Culture & Health (3)

Credit Total: _____

Spring Sophomore(example)

HLTH200 Introduction to Disease (3)
HLTH353 Physiology of Exercise (3)
RECR205 Nutrition for Wellness (3)

Credit Total: _____

Fall Junior

HLTH470 Sex Education OR (3)
HLTH341 Teaching Human Sexuality

Credit Total: _____

Spring Junior

HLTH320 Drug Education OR (3)
HLTH336 Teaching Drug Education
HLTH330 School Health Programs (2)

Credit Total: _____

Fall Senior

HLTH410 Community Health Org (3)
HLTH402 Eval in Hlth Ed & Hlth Promo (2)

Credit Total: _____

Spring Senior

HLTH485 Field Experience (3)
HLTH440 Research in Health Science (3)

Credit Total: _____

**Lock Haven University
Department of Health Science**

**Bachelor of Science in Health Science / Physical Therapy 3+3 Widener
For students enrolling LHU Fall 2010**

FALL-1	sh
BIOL106 Principles of Biology I	3
HLTH128 Anatomy & Physiology I	3
HLTH129 A & P I Lab	1
General Education (Health, Comp, Math)	<u>9</u>
	15

SPRING-1	sh
BIOL107 Principles of Biology II	3
HLTH130 Anatomy & Physiology II	3
HLTH131 A & P II Lab	1
HLTH305 Biomechanics	3
General Education	<u>9</u>
	18

FALL-2	sh
CHEM120 Principles of Chemistry I	4
HLTH200 Intro to Disease	3
HLTH353 Physiology of Exercise	3
General Education	<u>3</u>
	16

SPRING-2	sh
CHEM121 Principles of Chemistry II	4
BIOL202 Genetics	3
General Education/Major Electives	<u>9</u>
	16

FALL-3	sh
PHYS130 Physics I	4
PSYC240 Life Span Development	<u>3</u>
General Education/Major Education	<u>9</u>
	16

SPRING-3	sh
PHYS131 Physics II	4
HLTH451 Advanced Anatomy	4
HLTH420 Clinical Eval & Rehab	3
General Education/Major Electives	<u>6</u>
	17

Major Electives-

3 credits required from the following:

- Statistics
- Computer Science
- Abnormal Psychology
- Microbiology
- Organismal Physiology
- CPR & Emergency Care

**Lock Haven University
Department of Health Science**

**Bachelor of Science in Health Science / Physician Assistant 3+2
For students enrolling LHU Fall 2006**

HUMANITIES	18sh	Gr
Art/Music/Theatre	6	
Literature	3	
Philosophy	3	
Composition	3	
Speech	3	

SOCIAL BEHAVIORAL SCIENCES	12sh	
World History	3	
Intro to Psychological Sciences	3	
Government/Economics	3	
Sociology/Anthropology	3	

NATURAL SCIENCE/MATH	9sh	
Principles of Biology I	3	
Principles of Biology II	3	
Mathematics	3	

WELLNESS	3sh	
Introduction to Health	3	

MAJOR AREA COURSES	69sh	Gr
BIOL202 Genetics (S)	3	*
BIOL340 Microbiology (F)	4	*
CHEM111 Chemistry of Nutrition	3	
CHEM120 Principles of Chemistry I	4	*
CHEM121 Principles of Chemistry II	4	*
CHEM205 Intro to Organic Chemistry	4	*
CHEM410 Biochemistry	4	*
HLTH128 Anatomy & Physiology I	3	*
HLTH129 A & P Lab I	1	*
HLTH130 Anatomy & Physiology II	3	*
HLTH131 A & P II Lab	1	*
HLTH415 Intro to Pharmacology	3	*
HLTH451 Advanced Anatomy	4	*
HLTH407 Advanced Human Phys. (S)	4	*
HLTH485 Field Experience	1	
MATH107 Basic Statistics	3	*
PHYS130 Physics I	4	*
PHYS131 Physics II	4	*
PSYC240 Life Span Development	3	*
PYAS300 Intro to Physic. Asst. Studies	3	

HEALTH SCIENCE ELECTIVES	6 sh	

General Education Overlays

- 2 Multicultural** _____
- 3 Writing Emphasis** _____
- 2 Information Literacy** _____
- 2 External Experience** _____

***GRE's- Late Summer/ Early Junior**

LHU 3+2
PHYSICIAN ASSISTANT CURRICULUM
SUGGESTED COURSE SEQUENCE

FALL – 1

- 4 CHEM120 Chemistry I
- 3 BIOL106 Principles Biology I
- 3 HLTH 128 Anatomy & Physiology I
- 1 HLTH129 Anatomy & Physiology I Lab
- 6 General Education (HLTH105 Intro Health)
- (First Year Seminar Optional)**

17

SPRING – 1

- 4 CHEM121 Chemistry II
- 3 BIOL107 Principles Biology II
- 3 HLTH130 Anatomy & Physiology II
- 1 HLTH131 Anatomy & Physiology II Lab
- 6 General Education (Intro Psych) Math113

17

Summer – Field Experience (1 sh)*; 6 Cr. General Education

FALL – 2

- 4 CHEM205 Intro to Organic Chemistry
- 4 PHYS130 Physics I
- 3 PYAS100 Introduction to P.A. Studies
- 3 MATH107 Basic Statistics
- 3 General Education

17

SPRING – 2

- 3 BIOL202 Genetics
- 4 PHYS131 Physics II
- 3 PSYC240 Life Span Development
- 4 HLTH451 Advanced Anatomy
- 3 Major Electives

17

Summer – Field Experience (1 sh*); 6 Cr. General Education

FALL – 3

- 4 BIOL340 Microbiology
- 3 CHEM111 Chemistry of Nutrition
- 6 General Education
- 3 Major Electives

16

SPRING – 3

- 3 HLTH415 Pharmacology
- 4 CHEM410 Biochemistry
- 4 HLTH407 Advanced Human Physiology
- 3 General Education

14

***Only 1 sh of Field Experience is required.**
General Education (42 Credits)
Major Electives (6 Credits Required)

This list of courses is subject to change.

- HLTH353 Physiology of Exercise
- HLTH305 Biomechanics
- HLTH325 Death Education
- HLTH320 Drug Education
- HLTH440 Research in the Health Sciences

- HLTH401 Current Issues in Health
- BIOL310 Immunology
- PSYC307 Abnormal Psychology
- HLTH430 Women's Health Issues
- HLTH470 Sex Ed. for the Health Sciences
- HLTH315 Consumer Health

**Lock Haven University
Department of Health Science**

**Bachelor of Science in Health Science / Pre-Physical Therapy
For students enrolling LHU Fall 2009**

HUMANITIES	18 sh	Gr
Art/Music/Theatre	6	
Literature	3	
Philosophy	3	
Composition	3	
Speech	3	

SOCIAL BEHAVIORAL SCIENCES	12 sh	
World History	3	
Intro to Psychological Sciences	3	
Government/Economics	3	
Sociology/Anthropology	3	

NATURAL SCIENCE/MATH	9 sh	
Principles of Biology I	3	
Principles of Biology II	3	
Mathematics	3	

WELLNESS	3 sh	
Introduction to Health	3	
ELECTIVES	10 sh	

HEALTH SCIENCE/PRE PT COURSES	58 sh	Gr
HLTH128 Anatomy & Physiology I	3	
HLTH129 A & P I Lab	1	
HLTH130 Anatomy & Physiology II	3	
HLTH131 A & P II Lab	1	
HLTH200 Intro to Disease	3	
HLTH305 Biomechanics	3	
HLTH353 Physiology of Exercise	3	
HLTH420 Clinical Evaluation/Rehab	3	
HLTH440 Research Methods	3	
HLTH451 Advanced Anatomy	4	
HLTH485 Field Experience	3	
CHEM111 Chemistry of Nutrition OR RECR205 Nutrition for Wellness	3	
PHYS130 Physics I	4	
PHYS131 Physics II	4	
CHEM120 Principles of Chemistry I	4	
CHEM121 Principles of Chemistry II	4	
MATH107 Basic Statistics	3	
PSYC240 Life Span Development	3	
PSYC307 Abnormal Psychology	3	

BIOLOGY ELECTIVES	3 sh	
BIOL202 Genetics	3	
BIOL302 Developmental Biology (F)	3	
BIOL310 Immunology (S)	2	
BIOL315 Comparative Anatomy	4	
BIOL330 Cell & Molecular Biology	4	
BIOL340 Microbiology (F)	4	
BIOL410 Organismal Physiology (S)	3	

HEALTH SCIENCE ELECTIVES	7 sh	
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General Education Overlays

2 Multicultural _____

3 Writing Emphasis _____

2 Information Literacy _____

2 External Experience _____

SUGGESTED ELECTIVES

HLTH307 Culture & Health	3
HLTH320 Drug Education	3
HLTH325 Death Education	3
HLTH332 Psych of Injury	3
HLTH401 Current Issues in Health	3
HLTH406 Biomechanics of Injury	3
HLTH407 Advanced Human Phys	3
HLTH415 Intro to Pharmacology	3

HLTH430 Women's Health Issues	3
ATTR462 Physical Modalities (S)	4
HLTH470 Sex Ed. For the Health Sciences	3
HLTH498 Health Science Seminar	3
HLTH499 Independent Study	vari
PSYC215 Brain and Behavior	3
PSYC410 Physiological Psychology	3

Lock Haven University Health Science Department
Pre-Physical Therapy Track
SUGGESTED ** Course Sequence

Fall Freshman

A&P 1 with Lab	(4)
Principles of Biology 1	(3)
Introduction to Health	(3)
Interm. Algebra (if needed) *	(3)
General Education/Electives	(3)
Total	16

Spring Freshman

A&P 2 with Lab	(4)
Principles of Biology 2	(3)``
Precalculus	(3)
Intro to Psychology	(3)
General Education/Electives	(3)
Total	16

Fall Sophomore

Biomechanics	(3)
Intro to Disease	(3)
Chemistry 1	(4)
General Education/Electives	(6)
Total	16

Spring Sophomore

Statistics	(3)
Life Span Development (suggested)	(3)
Physiology of Exercise	(3)
Chemistry 2	(4)
General Education/Electives	(3)
Total	16

Fall Junior

Abnormal Psychology	(3)
Physics 1	(3)
Nutrition	(3)
General Education/Electives	(6)
Total	16

Spring Junior

Clinical Evaluation	(3)
Physics 2	(4)
Upper Level Biology	(3)
General Education/Electives	(3)
Total	13

Fall Senior

Research Methods	(3)
General Education/Electives	(9)
Field Experience	(3)
Total	15

Spring Senior

Advanced Anatomy	(4)
General Education/Electives	(8)
Total	12

*GRE - Summer/Early Fall of senior year

*Student must take math placement exam to determine math course entry level.

** Student should consult with academic advisor regarding course sequence and availability.

**Lock Haven University
Department of Health Science**

**Bachelor of Science in Health Science / Pre-Physician Assistant
For students enrolling LHU Fall 2009**

HUMANITIES	18sh	Gr
Art/Music/Theatre	6	
Literature	3	
Philosophy	3	
Composition	3	
Speech	3	

SOCIAL BEHAVIORAL SCIENCES	12sh	
World History	3	
Intro to Psychological Sciences	3	
Government/Economics	3	
Sociology/Anthropology	3	

NATURAL SCIENCE/MATH	9sh	
Principles of Biology I	3	
Principles of Biology II	3	
Mathematics	3	

WELLNESS	3sh	
Introduction to Health	3	

ELECTIVES	10sh	

HEALTH SCIENCE COURSES	30sh	Gr
HLTH128 Anatomy & Physiology I	3	*
HLTH129 A & P I Lab	1	*
HLTH130 Anatomy & Physiology II	3	*
HLTH131 A & P II Lab	1	*
HLTH353 Physiology of Exercise	3	
CHEM111 Chem. of Nutrition OR RECR205 Nutrition for Wellness	3	
PHYS130 Physics I	4	*
PHYS131 Physics II	4	*
CHEM120 Principles of Chemistry I	4	*
CHEM121 Principles of Chemistry II	4	*

PRE-PHYSICIAN ASST. TRACK	37-41	sh
BIOL202 Genetics (S)	3	*
BIOL340 Microbiology (F)	4	*
HLTH200 Introduction to Disease	3	
HLTH415 Intro to Pharmacology	3	*
HLTH451 Advanced Anatomy	4	*
HLTH407 Adv. Human Phys. OR BIOL410 Organismal Physiology (S)	3	*
CHEM205 Intro to Organic Chem.	4	*
CHEM410 Biochemistry	4	*
PSYC240 Life Span Development	3	*
MATH107 Basic Statistics	3	*
HLTH485 Field Experience	3-6	

General Education Overlays

2 Multicultural _____, _____

3 Writing Emphasis _____, _____, _____

2 Information Literacy _____, _____

2 External Experience _____, _____

*GRE's - Late Summer/Early Fall

4+2 G	
Students applying between 2009-2011	Students applying between 2012 or after
<ul style="list-style-type: none"> • GPA 3.0 or better • C or better in all courses identified w/ star • 1000 GRE & 4/6 on writing • Must still apply & successfully interview through caspaonline.org 	<ul style="list-style-type: none"> • GPA 3.2 or better • B- or better in all courses identified w/ star • 1000 GRE & 4/6 on writing • Must still apply & successfully interview through caspaonline.org

**Lock Haven University Health Science Department
Pre-Physician Assistant Track
Suggested Course Sequence**

Freshman Year

Fall (example)

HLTH128 Anatomy & Physiology I (3)
HLTH129 Anatomy & Physiology Lab (1)
BIOL106 Principles of Biology I (3)
HLTH105 Introduction to Health (3)

Credit Total: _____

Spring (example)

HLTH130 Anatomy & Physiology II (3)
HLTH131 Anatomy & Physiology Lab (1)
BIOL107 Principles of Biology II (3)
PSYC100 Introduction to Psychology (3)

Credit Total: _____

Sophomore Year

Fall (example)

CHEM120 Principles of Chemistry I (4)
HLTH353 Physiology of Exercise (3)
MATH107 Basic Statistics (3)

Credit Total: _____

Spring (example)

CHEM121 Principles of Chemistry II (4)
CHEM111 Chemistry of Nutrition (3)
Or RECR205 Nutrition for Wellness (3)
PSYC240 Life Span Development (3)
HLTH200 Introduction to Disease (3)

Credit Total: _____

Junior Year

Fall

PSYC130 Physics I (4)
CHEM205 Intro. To Organic Chemistry (4)

Credit Total: _____

Spring

PSYC131 Physics II (4)
BIOL202 Genetics (3)
HLTH415 Introduction to Pharmacology (3)

Credit Total: _____

Senior Year

Fall

HLTH451 Advanced Human Anatomy (4)
BIOL340 Microbiology (4)

Credit Total: _____

Spring

HLTH407 Advanced Human Physiology (4)
CHEM410 Biochemistry (4)

Credit Total: _____

**Lock Haven University
Department of Health Science**

**Bachelor of Science in Health Science / Pre-Professional
For students enrolling LHU Fall 2009**

HUMANITIES	18sh	Gr
Art/Music/Theatre	6	
Literature	3	
Philosophy	3	
Composition	3	
Speech	3	

SOCIAL BEHAVIORAL SCIENCES	12sh	
World History	3	
Introduction to Psychological Sciences	3	
Government/Economics	3	
Sociology/Anthropology	3	

NATURAL SCIENCE/MATH	9sh	
Principles of Biology I	3	
Principles of Biology II	3	
Mathematics	3	

WELLNESS	3sh	
Introduction to Health	3	

ELECTIVES	10sh	

HEALTH SCIENCE COURSES	36sh	Gr
HLTH128 Anatomy & Physiology I	3	
HLTH129 A & P I Lab	1	
HLTH130 Anatomy & Physiology II	3	
HLTH131 A & P II Lab	1	
HLTH305 Biomechanics	3	
HLTH353 Physiology of Exercise	3	
HLTH 440: Research in Health Science	3	
CHEM111 Chemistry of Nutrition OR RECR205 Nutrition for Wellness	3	
PHYS130 Physics I	4	
PHYS131 Physics II	4	
CHEM120 Principles of Chemistry I	4	
CHEM121 Principles of Chemistry II	4	

PRE-PROFESSIONAL TRACK	32sh	
MATH107 Basic Statistics	3	
HLTH200 Introduction to Disease	3	
HLTH485 Field Experience	6	
Natural Science (See other side)	6	
Psychology (See other side)	6	
Hlth Science Electives (See other side)	8	

General Education Overlays

- 2 Multicultural** _____
3 Writing Emphasis _____
2 Information Literacy _____
2 External Experience _____

NATURAL SCIENCE (6 sh)

BIOL110 Introduction to Microbiology	3
BIOL202 Genetics	3
BIOL302 Developmental Biology (F)	3
BIOL303 Vertebrate Endocrinology (F)	2
BIOL310 Immunology (S)	2
BIOL315 Comparative Anatomy (F)	4
BIOL330 Cellular & Molecular Bio (F)	4
BIOL340 Microbiology (F)	4
BIOL410 Organismal Physiology (S)	3

BIOL499 Independent Study	3
CHEM105: Forensic Chemistry	3
CHEM111 Chemistry of Nutrition (S) (*May be included in this category only if RECR205 has been completed)	3
CHEM220 Organic Chemistry I (F)	4
CHEM221 Organic Chemistry II (S)	4
CHEM316 Quantitative Analysis (F)	4
CHEM410 Biochemistry (S)	4

PSYCHOLOGY (6 sh)

PSYC102 Child Development	3
PSYC103 Adolescent Development	3
PSYC202 Research Methods in Psych.	3
PSYC212 Forensic Psychology	3
PSYC215 Brain and Behavior	3
PSYC235 Interpersonal Skills	3
PSYC240 Life Span Development	3
PSYC250: Social Psychology	3
PSYC307 Abnormal Psychology	3

PSYC310 Cognitive Psychology	3
PSYC315 Health Psychology (F)	3
PSYC322 Drugs and Human Behavior	3
PSYC410 Physiological Psychology (F)	3
PSYC412 Human Neuropsychology (F)	3
PSYC421 Psychological Assessment	3
PSYC425 Psychology of Women (F)	3
PSYC445 Neuroscience Lab (F)	1

HEALTH SCIENCE (8 sh)

HLTH100 Medical Terminology	1
HLTH102 Orientation to Hlth Science	1
ATTR110 Orientation to Ath. Train.	1
HLTH215 Community Health	1.5
HLTH208 Stress Management and Life Skills for Health Promotion	1.5
HLTH301 CPR/Emergency Care	3
HLTH307 Culture and Health (F)	3
HLTH310 CPR/First Aid Instructor	2
HLTH315 Consumer Health	3
HLTH320 Drug Education	3
HLTH325 Death Education	3
HLTH332 Psych Aspects of Inj. /Ill.	3
HLTH401 Current Issues in Health (S; odd yrs)	3

HLTH406 Biomechanics of Musculoskeletal Injury	3
HLTH407 Advanced Physiology and Mechanisms of Disease	4
HLTH415 Intro to Pharmacology	3
HLTH420 Clinical Evaluation & Rehabilitation	3
HLTH430 Women's Health Issues (S; even yrs)	3
HLTH451 Advanced Anatomy	4
ATTR462 Physical Modalities (F)	4
ATTR463 Therapeutic Exercise & Rehab.	4
HLTH470 Sex Education for the Health Sciences	3
HLTH498 Health Science Seminar	3
HLTH499 Independent Study	3
HPED353 Motor Learning Applied to P.E.	3

**Lock Haven University Health Science Department
Pre-Professional Track
Suggested Course Sequence**

Fall Freshman (example)

BIOL106 Principles of Biology I (3)
HLTH128 Anatomy & Physiology I (3)
HLTH129 Anatomy & Physiology Lab (1)
HLTH105 Introduction to Health (3)
HLTH119 First Year Seminar (1)

Credit Total: _____

Spring Freshman (example)

BIOL 107 Principles of Biology II (3)
HLTH130 Anatomy & Physiology II (3)
HLTH131 Anatomy & Physiology Lab (1)
MATH112/113 Math (3)

Credit Total: _____

Fall Sophomore (example)

HLTH305 Biomechanics (3)
CHEM120 Principles of Chemistry I (4)
PSYC100 Intro to Psych (3)
HLTH200 Introduction to Disease (3)

Credit Total: _____

Spring Sophomore(example)

HLTH353 Physiology of Exercise (3)
CHEM121 Principles of Chemistry II (4)
RECR205 Nutrition for Wellness OR
CHEM111 Chemistry of Nutrition (3)

Credit Total: _____

Fall Junior

PHYS130 Physics I (4)
MATH107 Basic Statistics (3)

Credit Total: _____

Spring Junior

PHYS131 Physics II (4)
HLTH440 Research in Health Science (3)

Credit Total: _____

Fall Senior

HLTH485 Field Experience (3)

Credit Total: _____

Spring Senior

HLTH485 Field Experience (3)
HLTH451 Advanced Anatomy (4)

Credit Total: _____

**Projected Schedule and Requirements for Health and Physical Education
Teacher Certification Students
Effective Fall Semester 2011**

FRESHMAN YEAR

Fall 1	Spring 2
HPED103 teaching soccer .5	HPED105 teaching basketball .5
HPED102 foundations of physical educ. seminar 2	HPED120 teaching baseball/softball .5
HPED111 teaching racquet sports 1	HPED206 OR teaching lacrosse
HPED112 teaching movements and rhythms .5	HPED215 teaching track 1
HPED200 teaching aerobics .5	HPED--- swimming (ews, wsi, lgt, lgi) 1
ENGL GE dimensions of literature 3	HLTH122 essentials of human anatomy and physiology 3
SOCI GE introduction to sociology 3	HPED202 teaching leisure sports 1
ENGL GE composition 3	HLTH104 foundations of health education 1.5
MATH GE math (101 level or higher) 3	HLTH215 community health 1.5
Total 16.5	HIST GE world history 3
<ul style="list-style-type: none"> • Start portfolio development and professional development activities (PDAs). • Join LHUAHPERD and PSAHPERD. • Complete swimming assessment test. • Submit child abuse and criminal record clearances. • Earn at least a C grade in major courses. • Earn at least a C- Composition and Literature. 	SPEC202 cultural and linguistic diversity in ed 3 Total 16 <ul style="list-style-type: none"> • Work on PDAs (60 hours). • Work on diversity experiences (20 hours). • Review PDAs and portfolio with advisor. • Anticipate required 3.0 GPA after next semester. • Earn at least a C grade in major courses. • Earn at least a C- grade in the math course. • Anticipate any necessity for scheduling summer courses. • Schedule PRAXIS I

SOPHOMORE YEAR

Fall 3	Spring 4
HPED107 teaching field hockey .5	HPED210 teaching folk and social dance 1
HPED109 OR teaching wrestling	HPED352 kinesiology 2
HPED218 teaching tumbling/gymnastics .5	PHIL GE philosophy 3
HPED113 teaching volleyball .5	GEOS GE lab science 3
HPED204 psy/soc dimensions sport / phy act. 2	OR
HPED260 practices/principles of conditioning 1	BIOL GE
HLTH334 teaching nutrition and consumer health 3	PSYC GE child or adolescent development 3
ART/MUSIC/THEATRE/DANCE 3	ART/MUSIC/THEATRE/DANCE GE 3
MATH GE math (101 or higher level) 3	HPED--- adv. tech coaching course 1
COMM GE speech 3	Total 16
Total 16.5	<ul style="list-style-type: none"> • Review certification requirements for any changes with advisor. • 3.0 GPA requirement. • Apply for Candidacy with all Stage I requirements. • Continue completing 60 hours of PDA (20 hours of diversity). • Earn at least a C grade in major courses. • Earn at least a C- grade in the lab science course. • Anticipate any necessity for scheduling summer courses. • Passed PRAXIS I
<ul style="list-style-type: none"> • Schedule PRAXIS I. • Renew child abuse/criminal record clearances. • Review PDAs/portfolio with advisor. • Continue completing 60 hours of PDAs (40 hours of diversity). • Renew PSAHPERD membership. • Earn at least a C grade in major courses. • Earn at least a C- in Math and Speech. • Achieve the required 3.0 GPA at the end of this semester. 	

JUNIOR YEAR

Fall 5	Spring 6
HPED302 motor learning applied to phy. edu. 2	HLTH330 school health programs 2
HLTH341 teaching human sexuality 3	HLTH336 teaching drug education 3
HLTH353 physiology of exercise 3	HLTH402 eval/health ed promotion programs 2
POLI GE government 3	GEOS GE lab science 3
PSYC201 educational psychology 3	SPEC345 literacy instr for students w/dis 3
SPEC204 cog. dev of diverse learners 3	HPED213 teaching elem. phy.edu.act. 1
Total 17	Total 14
<ul style="list-style-type: none"> • Attend meeting for Professional Semester Application. • Complete 60 hours of PDAs (20 hours of diversity). • Renew PSAHPERD membership. • Renew child abuse/criminal record clearances. • Maintain the 3.0 GPA minimum requirement. • Review the portfolio with your advisor. • Earn at least a C in major courses. • Earn at least a C in Educational Psychology. 	<ul style="list-style-type: none"> • Must have 60 hours of PDAs completed by interview, 20 hours of diversity must be completed by interview, passed PRAXIS I. • Complete the Professional Semester interview/Livetext Portfolio Presentation • Be certain all required courses have been taken to meet professional semester requirements. • Maintain the 3.0 GPA minimum requirement. • Earn at least a C in major courses.

SENIOR YEAR

Fall 7	Spring 8
Professional Semester	Student Teaching
HPED310 teaching physical education 3	HPED493 elementary student teaching and professional practicum (IL) (WE) 6
HPED311 teaching health 3	HPED494 secondary student teaching and professional practicum (IL) (WE) 6
HPED312 adapted physical education 3	
HPED314 health/physical education tests 3	
HPED400 professional development 1	
HPED463 organization/administration of hpe 3	
RECR305 adventure act/outdoor pursuits .5	
Total 16.5	Total 12
<ul style="list-style-type: none"> • Pass PRAXIS II Tests. • Renew PSAHPERD membership and join AAHPERD. • Renew child abuse/criminal record clearances. • Maintain 3.0 GPA minimum requirement. • Complete student teaching application and graduation applications. 	<ul style="list-style-type: none"> • Maintain the 3.0 GPA minimum requirement. • Apply for graduation. • Arrange for cap and gown. • Complete alumni information survey for the Department of Health and Physical Education. • Complete career services information for references and employment opportunities. • Final Livetext Portfolio Presentation

PLEASE NOTE

- **This check sheet is only a guide. Requirements are subject to change** and students are encouraged to attend Health and Physical Education Major meetings and visit with their advisors on a regular basis to keep current with program modifications.
- **Graduation in four years requires** that students comply with this schedule with few exceptions. *Students are advised to consider summer classes or an additional semester if this sequence becomes too demanding.*
- **Non-teaching tracks** are offered in Aquatics, Coaching, and Sport and Physical Education in Correctional Settings.
- **Program options requirements** for all tracks are available from your advisor and the chair of the Health and Physical Education Department.
- **Elective courses and minors** should be considered if a student plans to take summer courses or attend for more than eight semesters.
- **Diversity experiences** should be planned for as early as possible as they may not be possible during student teaching

AQUATICS TRACK REQUIREMENTS*

Students must maintain a 2.0 major and overall GPA and at least a C in all Physical Education and Sport Core courses.

Scheduled	Grade
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Required Physical Education Core

(21 credits)

_____ HLTH128 Anatomy and Physiology I (3)	_____
_____ HLTH130 Anatomy and Physiology II (3)	_____
_____ HLTH353 Physiology of Exercise (3)	_____
_____ HPED352 Kinesiology (2)	_____
_____ HPED102 Foundations of Physical Education Seminar (2)	_____
_____ HPED103 Teaching Soccer (.5)	_____
_____ HPED105 Teaching Basketball (.5)	_____
_____ HPED111 Teaching Racquet Sports (1)	_____
_____ HPED112 Teaching Fundamental Movements and Rhythms (.5)	_____
_____ HPED113 Teaching Volleyball (.5)	_____
_____ HPED120 Teaching Baseball/Softball (.5)	_____
_____ HPED213 Elementary Physical Education Activities (1)	_____
_____ HPED218 Teaching Tumbling/Gymnastics (.5)	_____
_____ HPED260 Principles and Practices of Conditioning (1)	_____
_____ HPED302 Motor Learning for Physical Education (2)	_____

Required Sport Core

(31 credits)

_____ HLTH320 Drug Education (3)	_____
_____ SPRT106 Introduction to Sport Administration (3)	_____
_____ SPRT305 Psychology of Coaching (3)	_____
_____ SPRT323 Sport and Society (3)	_____
_____ HPED350 Advanced Techniques/Coaching Swimming/ Diving (2)	_____
_____ HPED351 Management of Aquatic Programs and Facilities (2)	_____
_____ HPED450 Physical Education Field Experience (may be taken for 12 credits)	_____
_____ HPED222 Lifeguarding Instructor (1)	_____
_____ HPED225 Swimming/Lifeguard Training (1)	_____
_____ HPED234 Water Safety Instructor (1)	_____

Aquatics Track Support Courses

(select 9.5 credits)

- _____ HPED200 Teaching Aerobics (.5) _____
- _____ HPED016 Strength Training (1) _____
- _____ HPED--- Advanced Techniques/Coaching
(Not taken in Core) (1-2) _____
- _____ HLTH202 Care & Prevention of Athletic Injuries (3) _____
- _____ HLTH301 CPR and Emergency Care (3) _____
- _____ EDTF200 Instructional Media (2) _____
- _____ HPED228 Synchronized Swimming (.5) _____
- _____ HPED230 Aquacise (.5) _____

Aquatics Track Supporting Electives

(select 9 credits)

- _____ HPED--- Teaching Activity courses not taken in
Physical Education Core (.5+) _____
- _____ PSYC201 Educational Psychology (3) _____
- _____ PSYC235 Interpersonal Skills and Leadership (3) _____
- _____ PSYC250 Social Psychology (3) _____
- _____ RECR202 Outdoor Recreation Activities (3) _____
- _____ RECR205 Nutrition for Wellness (3) _____
- _____ RECR244 Recreation Leadership and Supervision (3) _____
- _____ RECR301 Exercise Prescription (3) _____
- _____ RECR325 Camp Counseling and Administration (3) _____

General Education Requirements

(42 credits)

Free Electives (8 Credits)

Wellness

3 Credits

____ _

Humanities

18 Credits

____ _

- _____ Art/Music/Theatre/Dance (3) _____
- _____ Art/Music/Theatre/Dance (3) _____
- _____ Literature (3) _____
- _____ Philosophy (3) _____
- _____ Composition (3) _____
- _____ Speech (3) _____

Natural Sciences/Math

9 Credits

- _____ Lab Science (3) _____
- _____ Lab Science (3) _____
- _____ Math (3) _____

History/Social Sciences

12 Credits

- _____ World History (3) _____
- _____ Government/Economics (3) _____
- _____ Psychology (3) _____
- _____ Sociology/Anthropology/Geography (3) _____

Additional Requirements-Overlays

Information Literacy (IL) _____
(2 Units)

***Check with your advisor to stay current with curriculum changes and options. This is only a guide.**

Writing Emphasis (WE) _____
(3 Units)

8/11

Multi-Cultural (MC) _____
(2 Units)

COACHING TRACK REQUIREMENTS *

Students must maintain at least a 2.0 major and overall GPA
 and achieve at least a C Grade in the required Physical Education and Sport Core courses.

Scheduled	Grade
<u>Required Physical Education Core</u>	(22.5 Credits)
_____ HLTH 128 Anatomy and Physiology I (3)	_____
_____ HLTH 130 Anatomy and Physiology II (3)	_____
_____ HLTH 301 CPR Emergency Care (3)	_____
_____ HPED 352 Kinesiology (2)	_____
_____ HLTH 353 Physiology of Exercise (3)	_____
_____ HPED 102 Foundations of Physical Education Seminar (2)	_____
_____ HPED 103 Teaching Soccer (.5)	_____
_____ HPED 105 Teaching Basketball (.5)	_____
_____ HPED 111 Teaching Racquet Sports (1)	_____
_____ HPED 112 Teaching Movement and Rhythms (.5)	_____
_____ HPED 120 Teaching Baseball/softball (.5)	_____
_____ HPED 134 or 225 or 234 or 222 (select 1) EWS, LGT, WSI, LGI (1)	_____
_____ HPED 213 Elementary Physical Education Activities (1)	_____
_____ HPED 218 Teaching Tumbling/Gymnastics (.5)	_____
_____ HPED 260 Practices & Principles of Conditioning (1)	_____

<u>Required Sport Core</u>	(33 Credits)
_____ HLTH 202 Care and Prevention of Athletic Injuries (3)	_____
_____ HLTH 320 Drug Education (3)	_____
_____ HPED 302 Motor Learning for Physical Education (2)	_____
_____ SPRT 106 Intro. Sport Administration (3)	_____
_____ SPRT 305 Psychology of Coaching (3)	_____
_____ SPRT 323 Sport and Society (3)	_____
_____ HPED 450 Physical Education Professional Field Experience (12)	_____
_____ HPED --- Advanced Techniques/Coaching Select any 4 credits (4)	_____

Scheduled

Grade

Coaching Track Support

(Select any 9.5 Credits)

_____	HPED 200 Teaching Aerobics (.5)	_____
_____	HPED 015 Strength Training (1)	_____
_____	HPED – Advanced techniques and Coaching not taken in core (1-3)	_____
_____	PSYC 201 Educational Psychology (3)	_____
_____	PSYC 235 Interpersonal Skills and Leadership (3)	_____
_____	PSYC 102 Child Psychology OR	_____
_____	PSYC 103 Adolescent Psychology (3)	_____
_____	PSYC 250 Social Psychology (3)	_____
_____	RECR 205 Nutrition for Wellness (3)	_____

Supporting Electives

(Select any 5 Credits)

_____	HLTH 301 CPR and Emergency Care (3)	_____
_____	HLTH 470 Sex Education (3)	_____
_____	SPRT 321 Management & Leadership of Sport (3)	_____
_____	SPRT 324 Sport Law and Ethics (3)	_____
_____	SPRT 402 Sport Business Finance (3)	_____
_____	HPED 351 Management of Aquatic Programs and Facilities (2)	_____
_____	HPED Teaching activity courses not taken in required core (.5-3)	_____

Free Electives

(8 Credits)

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

General Education

(42 Credits)

Wellness

3 Credits

Humanities

18 Credits

_____	Art/Music/Theatre/Dance (6)	_____
_____	Literature (3)	_____
_____	Philosophy (3)	_____
_____	Composition (3)	_____
_____	Speech (3)	_____

Natural Sciences/Math

9 Credits

_____	Lab Science (3)	_____
_____	Lab Science (3)	_____
_____	Math (3)	_____

Additional Requirements-Overlays

Information Literacy (IL) _____
(2 Units)

History/Social Sciences

12 Credits

_____	World History (3)	_____
_____	Government/Economics (3)	_____
_____	Developmental Psychology (3)	_____
_____	Sociology/Anthropology/Geography (3)	_____

Writing Emphasis (WE) _____
(3 Units)

Multi-Cultural (MC) _____
(2 Units)

***Check with your advisor to stay current of curriculum changes and options. This is only a guide.
C grades required for all major and elective courses.**

Physical Education and Sport in Correctional Settings Track Requirements*

Students must maintain a 2.0 major and overall GPA and at least a C in all Physical Education and Sport Core Courses.

Scheduled	Grade
<u>Required Physical Education Core</u>	
	(14.5 Credits)
_____ HLTH128 Anatomy and Physiology I (3)	_____
_____ HLTH130 Anatomy and Physiology II (3)	_____
_____ HLTH301 CPR and Emergency Care (3)	_____
_____ HPED102 Foundations of Physical Education Seminar (2)	_____
_____ HPED213 Elementary Physical Education Activities (1)	_____
_____ HPED260 Principles and Practices of Conditioning (1)	_____
_____ A Swimming Course (1)	_____
_____ A Team Sport (.5)	_____

<u>Required Sport Core</u>	
	(30 credits)
_____ HLTH320 Drug Education (3)	_____
_____ HPED016 Strength Training (1)	_____
_____ HPED240 Introduction to Physical Education and Sport in the Correctional Institution (3)	_____
_____ HPED302 Motor Learning for Physical Education (2)	_____
_____ SPRT106 Introduction to Sport Administration (3)	_____
_____ SPRT305 Psychology of Coaching (3)	_____
_____ SPRT323 Sport and Society (3)	_____
_____ HPED450 Physical Education Field Experience (12)	_____

<u>Sport/Correctional Setting: Support Core</u>	
	(Select 24 credits)
_____ RECR275 Recreation Services for People with Disabilities (3)	_____
_____ RECR357 Intramural Supervision* (3)	_____
_____ RECR365 Therapeutic Recreation Methods & Techniques (3)	_____
_____ SOCI203 Social Problems (3)	_____
_____ SOCI205 Racial and Ethnic Relations (3)	_____
_____ SOCI301 Juvenile Delinquency* (3)	_____
_____ SOCI302 Criminology* (3)	_____
_____ SOCI420 Corrections* (3)	_____
_____ CRJS102 Criminal Justice (3)	_____
_____ CRJS260 Criminal Law (3)	_____
_____ HLTH325 Death Education (3)	_____
_____ HLTH353 Physiology of Exercise (3)	_____
_____ HLTH470 Sex Education (3)	_____
_____ SPRT223 Contemporary Issues/Problems in Sport Admin. (3)	_____

*Required

Recommended Electives

(10 free elective credits)*

_____ PHIL102 Ethics (3)	_____
_____ PSYC307 Abnormal Psychology (3)	_____
_____ HLTH301 CPR and Emergency Care (3)	_____
_____ HPED200 Teaching Aerobics (.5)	_____
_____ HPED352 Kinesiology (2)	_____
_____ HPED--- Activity Courses (not required above)(1.5)	_____
_____ HPED--- Advanced Techniques/Coaching (1-3)	_____
_____ RECR244 Recreation Leadership and Supervision (3)	_____
_____ SPEC105 Introduction to Exceptionalities (3)	_____
_____ SPEC106 Mentally/Physically Disabled (3)	_____
_____ SPEC250 Learning Disabled (3)	_____
_____ SPEC251 Emotionally Disturbed (3)	_____
_____ SPEC255 Mentally Retarded (3)	_____
_____ SPEC313 Culturally Diverse and Disadvantaged (3)	_____
_____ SOCI206 Marriage and Family (3)	_____

*Courses not selected under the support Core may be selected to meet this elective requirement.

General Education Requirements

	3 Credits
Wellness	_____
Humanities	18 Credits
_____ Art/Music/Theatre/Dance (3)	_____
_____ Art/Music/Theatre/Dance (3)	_____
_____ Literature (3)	_____
_____ Philosophy (3)	_____
_____ Composition (3)	_____
_____ Speech (3)	_____

Natural Sciences/Math	9 Credits
_____ Lab Science (3)	_____
_____ Lab Science (3)	_____
_____ Math (3)	_____

History/Social Science	12 Credits
_____ World History (3)	_____
_____ Government/Economics	_____
_____ Developmental Psychology (3)	_____
_____ Sociology/Anthropology/	_____
_____ Geography (3)	_____

Additional Requirements
Overlays

Information Literacy (IL)	_____	_____
(2 Units)		
Writing Emphasis (WE)	_____	_____
(3 Units)		
Multi-Cultural (MC)	_____	_____
(2 Units)		

*Check with your advisor to stay current with curriculum changes and options. This is only a guide.
8/11

Lock Haven University
Department of Health Science
Associate Applied Science - Healthcare Professions

HUMANITIES	6sh	Gr
<i>(6 sh in at least two categories)</i>		
Art/Music/Theatre	3	
Literature	3	
Philosophy	3	

SOCIAL BEHAVIORAL SCIENCES	9sh	
<i>(Must take 9 sh in at least 3 categories)</i>		
World History	3	
Political Science or Economics	3	
Psychology	3	
Sociology or Anthropology	3	

WELLNESS, SKILLS & SCIENCE CORE	15sh	
Composition	3sh	
Speech	3sh	
Mathematics	3sh	
Natural Science	3sh	
Wellness	3sh	

CORE COURSES	31sh	Gr
BIOL101 Basic Biology	3	
CHEM101 Chemistry in the Environment	3	
HLTH128 Anatomy and Physiology I	3	
HLTH129 Anatomy and Physiology I Lab	1	
HLTH130 Anatomy and Physiology II	3	
HLTH131 Anatomy and Physiology II Lab	1	
PSYC100 Introduction to Psychology	3	
BIOL110 Microbiology	3	
Nutrition (RECR 205 or CHEM 111)	3	
Health Science Elective (200 level or higher)	3	
CSIC150 Introduction to Computers	3	
HLTH102 Orientation to Health Science	1	
HLTH100 Medical Terminology	1	

Bachelor of Arts – HISTORY

<u>GENERAL EDUCATION REQUIREMENTS</u>	<u>MAJOR REQUIREMENTS</u>																																																																																																																																															
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	<p>*Students may select any history course that does not already fulfill one of the other requirements. However, those planning graduate study are highly encouraged to do an independent study/senior capstone experience.</p>																																																																																																																																															

**Bachelor of Arts – HISTORY
Public History Track**

<u>GENERAL EDUCATION REQUIREMENTS</u>			<u>MAJOR REQUIREMENTS</u>		
Courses	When Taken	Grade		When Taken	Grade
Wellness/PE: (3 s.h.)	_____	_____	<u>History Core Requirements (27 s.h.)</u>		
_____	_____	_____	3 s.h. HIST 111 Global History I	_____	_____
Art/Music/Theatre: (6 s.h.)	_____	_____	3 s.h. HIST 112 Global History II	_____	_____
_____	_____	_____	3 s.h. HIST 201 U.S. History I	_____	_____
_____	_____	_____	3 s.h. HIST 202 U.S. History II	_____	_____
Literature: (3 s.h.)	_____	_____	3.s.h. HIST 200 Historical Thinking and Writing	_____	_____
_____	_____	_____	3 s.h. Upper Level European	_____	_____
Philosophy: (3 s.h.)	_____	_____	3 s.h. Upper Level U.S.	_____	_____
_____	_____	_____	6 s.h. Upper Level Non-West (Africa, Latin America or Asia)	_____	_____
Composition: (3 s.h.)	_____	_____		_____	_____
_____	_____	_____	<u>Supporting Social Science Courses (21 s.h.)</u>		
Speech: (3 s.h.)	_____	_____	3 s.h. POLI _____	_____	_____
_____	_____	_____	3 s.h. POLI _____	_____	_____
Psychology: (3 s.h.)	_____	_____	(Recommended: POLI 260 Public Admin)		
_____	_____	_____	3 s.h. ECON 101 _____	_____	_____
Lab Science: (6 s.h.)	_____	_____	3 s.h. ECON _____	_____	_____
_____	_____	_____	3 s.h. SOCI/ANTH _____	_____	_____
_____	_____	_____	3 s.h. SOCI/ANTH _____	_____	_____
Mathematics: (3 s.h.)	_____	_____	(Recommended: ANTH 3xx)		
Recommended: Math107 Statistics	_____	_____	3 s.h. GEOG _____	_____	_____
_____	_____	_____			
Elective: (6 s.h.)	_____	_____	<u>Public History Track (12 s.h.)</u>		
_____	_____	_____	3 s.h. HIST 203: Public History	_____	_____
_____	_____	_____	3 s.h. HIST 314: Oral History	_____	_____
General Education requirements that are fulfilled by major courses (9 s.h.)			Or HIST338 History and Preservation of American Architecture		
Sociology or Anthropology: (3 s.h.)			6 s.h. Internship	_____	_____
World History: (3 s.h.)				_____	_____
Government/ Economics: (3 s.h.)					
328 Liberal Arts Seminars: (9 s.h.)					
Social Science, Humanities, Natural Science					
_____	_____	_____			
_____	_____	_____			
_____	_____	_____			
Language : (12 s.h.) OR through level IV					
_____	_____	_____			
_____	_____	_____			
_____	_____	_____			
_____	_____	_____			
Electives as needed to meet graduation requirement of 120 credits					

APPROVAL FOR BS INTERDISCIPLINARY STUDIES MAJOR (Option II)

PLEASE PRINT OR TYPE

Name _____ Student ID _____
 (last) (first) (mi)
 Current Major _____ Concentration _____

A student declaring this major must complete an Academic Minor Component. Indicate that academic minor below and obtain the signature from the chairperson of the academic department that offers the minor.

Minor _____ Signature _____ Date _____

If student will not be completing a recognized minor but will be completing coursework "equivalent to a minor," check here _____.

Mr. Rick Lilla will become the student's new academic advisor. He is located in Stevenson Library.

Signature (Mr. Rick Lilla) _____ Date _____

Student's Signature _____ Date _____

BS in Interdisciplinary Studies, Option II, is restricted to students in good academic standing (2.000 GPA), who have earned a minimum of 45.0 sh, and who find themselves unable to meet the requirements of a declared major; Exploratory Studies without a concentration is not eligible. If a student does not meet one or more of these criteria, the student may not declare this major.

Requirements for this major include, in addition to General Education for BS degrees: ([Worksheet](#) for course placement is included below)

FOUNDATIONAL SKILLS FOR LIFE (18.0 sh)

Foundational Area	Select a minimum of one from each area	s.h.
Writing	ENGL315 Composition Usage & Editing Techniques ENGL345 Business Writing ENGL360 Technical Writing COMM190 Writing Mass Media COMM205 Computer Mediated Writing JOUR210 Legal Writing COMM390 Feature Writing COMM394 Magazine Writing COMM450 Opinion Writing COMM495 Public Relations Writing	3.0
Speech	COMM100 Introduction to Communication COMM102 Fundamentals of Public Speaking COMM103 Small Group Communication COMM104 Interpersonal Communication	3.0
Computer Science/ Management/Accounting	COMP150 Introduction to Computers ACCT110 Financial Accounting MANG220 Intro to Personal Financial Management	3.0
Math	MATH107 Basic Statistics MATH112 Intermediate Algebra MATH113 Elementary Functions MATH141 Calculus 1 Or any course requiring the above as prerequisites	3.0
300/400 level	Additional 6.0 sh at the 300/400 level must be selected from the above foundation areas	6.0

ORIGINAL MAJOR COURSE COMPONENT (17.0 sh) – Exclusive of foundational skills and general education requirements, students, in consultation with their academic advisors, will designate completed courses from their original majors to fulfill this requirement. A maximum of 17.0 sh are required for this part. Certain prescriptive tracks may be offered within programs. (See special education, alternative education.)

ACADEMIC MINOR COMPONENT (18.0 sh) – This component requires completing at least one academic minor exclusive of the original major courses component. LHU offers 39 minors. In exceptional circumstances, the advisor, department chairperson, and the appropriate college dean may approve a track equivalent to a minor.

INTERDISCIPLINARY STUDIES ELECTIVES COMPONENT (15.0 sh) – This final component comprises 15.0 sh of elective courses. At least 9 of the 15.0 sh must be taken at the 300/400 level. Students must consult with their academic advisors and receive approval for course selections.

RETURN COMPLETED FORM TO THE REGISTRAR'S OFFICE (Worksheet need not be submitted to Registrar's Office)

BS INTERDISCIPLINARY STUDIES (OPTION II) REQUIREMENTS – WORKSHEET

Name _____ ID _____

Advisor _____

CURRICULUM AREA	COURSE NUMBER/NAME	SH	SEM/YEAR	GRADE
GENERAL EDUCATION REQUIREMENTS (TOTAL = 52.0 SH)				
Requirements (42.0 sh)				
Wellness		3.0		
Composition		3.0		
Mathematics		3.0		
Speech		3.0		
Art/Music/Theatre/Dance		3.0		
Art/Music/Theatre/Dance		3.0		
Literature		3.0		
Philosophy		3.0		
World History		3.0		
Political Science/Economics		3.0		
Psychology		3.0		
Sociology/Anthropology/Geography		3.0		
Lab Science		3.0		
Lab Science		3.0		
Free Electives (up to 10.0 sh)				
GENERAL EDUCATION TOTAL		52.0		
FOUNDATIONAL SKILLS FOR LIFE (TOTAL = 18.0 SH)				
Writing (3.0 sh)		3.0		
ENGL315 Composition Usage/Edit				
ENGL345 Business Writing				
ENGL360 Technical Writing				
COMM190 Writing Mass Media				
COMM205 Comp Mediated Writing				
JOUR210 Legal Writing				
COMM390 Feature Writing				
COMM394 Magazine Writing				
COMM450 Opinion Writing				
COMM495 Public Relations Writing				
Speech (3.0 sh)	In addition to general education	3.0		
COMM100 Intro to Communication				
COMM102 Fund Public Speaking				
COMM103 Small Group Communic				
COMM104 Interpersonal Communic				
Comp Sci/Mgmt/Account (3.0 sh)		3.0		
COMP150 Intro to Computers				
ACCT110 Financial Accounting				
MANG220 Intro Persl Finan Mgmt				
Math (3.0 sh)	In addition to general education	3.0		
MATH107 Basic Statistics				
MATH112 College Algebra				
MATH113 Elementary Functions				
MATH141 Calculus 1				
Other math with above as prereq				
300/400 level courses (6.0 sh)	Select from above foundation areas			
		3.0		
		3.0		

SUB-TOTAL		18.0		
ORIGINAL MAJOR COURSES (Total not to exceed 17.0 sh)				
	[Original Major _____]			
SUB-TOTAL	Not to exceed 17.0 sh			
RECOGNIZED MINOR (18.0-21.0 sh)				
	[Minor _____]			
SUB-TOTAL		18.0		
INTERDISCIPLINARY STUDIES ELECTIVES (15.0 sh total with at least 9.0 sh at 300/400 level)				
SUB-TOTAL		15.0		
TOTAL		120.0 sh		

B. A. International Studies

GENERAL EDUCATION REQUIREMENTS			I: CORE REQUIREMENTS – Take 4 from the following:		
Courses	When Taken	Grade		Semester Taken	Grade
Wellness: (3s.h.)	_____	_____	POLI 107: World Politics	_____	_____
_____	_____	_____	ANTH 102: Cultural Anthropology	_____	_____
Art/Music/Theatre:(6s.h.)	_____	_____	ECON 101: Principles of Economics	_____	_____
_____	_____	_____	HIST 102: World History 2	_____	_____
_____	_____	_____	GEOG 260: World Regional Geography	_____	_____
Literature: (3s.h.)	_____	_____	II: AREA STUDIES EMPHASIS – Minimum 11 s.h. in ONE of the areas listed below. Select one of the following regions. See advisor for appropriate course selection. Credits earned on LHU Semester Abroad Programs may be applied toward the areas studies requirement (if they have not been used elsewhere in the major).		
Philosophy: (3s.h.)	_____	_____	African Studies	Asian Studies	
Composition: (3s.h.)	_____	_____	Eastern European Studies	Latin American Studies	
Speech: (3s.h.)	_____	_____	Western European Studies	Pacific Rim Studies	
World History: (3s.h.)	_____	_____	Mediterranean and Middle Eastern Studies		
Political Science/Economics: (3s.h.)	_____	_____	Area Selected: _____		
Psychology: (3 s.h.)	_____	_____	Course	Semester Taken	Grade
Sociology/Anthropology/Geography: (3s.h.)	_____	_____	_____	_____	_____
Lab Science: (6s.h.)	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
Mathematics: (3s.h.)	_____	_____	_____	_____	_____
Liberal Arts Seminars: (9s.h.)	_____	_____	III. TRACK CONCENTRATION – 21 s.h.		
One each in the Humanities, Social Sciences,	_____	_____	Each student must complete the requirements in ONE of the following tracks:		
Natural Sciences	_____	_____	A. Humanities Track B. International Relations Track C. Global Economy Track D. Human Geography Track E. Latin American Studies Track		
Foreign Language: Proficiency through Level IV	_____	_____	A. Humanities Track		
(0 to 12 credits as needed)	_____	_____	6 s.h. language and culture	Semester Taken	Grade
Electives (as needed)	_____	_____	_____	_____	_____
_____	_____	_____	3 s.h. Fine Arts – non-US art, theatre or music	_____	_____
_____	_____	_____	3 s.h. non-US Literature 200 level or above	_____	_____
_____	_____	_____	3 s.h. Ethnography (see below)	_____	_____
_____	_____	_____	3 s.h. World Economy (see below)	_____	_____
_____	_____	_____	3 s.h. World Politics (see below)	_____	_____
Overlays:	Electives:				
<i>Multicultural – 2 MC course</i>	<u>Language and Culture (6.s.h.)</u>				
<i>Writing Emphasis – 3 WE courses beyond English Comp.</i>	This requirement may be met by taking language, composition, and/or conversation courses beyond level IV in the first language, or culture course in the country/region of the first language; or by language (any level) or culture course in a second language; or by a combination of the foregoing. Courses used to satisfy the general education requirement may not be used.				
<i>Information Literacy- 2 IL courses</i>	<u>Ethnography: (3 s.h.)</u>				
<i>External Experience-2 EE units or approved Non-credit experience</i>	ANTH 330 – Japanese Culture and Society				
	ANTH 328 – Anthropology of Women				
	ANTH 422 – Anthropology of Latin America				

Continued on next page

A. Humanities Track (cont)

Electives (cont.)

World Economy: (3s.h.)

- ECON 330 – Economic Development
- ECON 355 – International Trade and Finance
- GEOG 440 – Economic Geography
- HIST 390 – Contemporary World Problems
- POLI 315 – Politics in Developing Nations
- POLI322 – International Political Economy

World Politics: (3 s.h.)

- POLI 250 – U.S. Foreign Policy
- POLI 301 – Comparative Government
- POLI 308 – Politics of Africa
- POLI 320 – Politics of Latin America
- POLI 335 – Politics of Global Health
- POLI 370 – UN and International Organizations
- HIST 307 – Diplomatic History of the U.S.
- COMM 491 – Propaganda and Public Opinion
- CRJS315 – Terrorism in the 21st Century

B. International Relations Track

	Semester Taken	Grade
3 s.h. History – non U.S.	_____	_____
3 s.h. POLI 105: Amer. Natl. Govt.	_____	_____
3 s.h. POLI 301: Comparative Govt.	_____	_____
3 s.h. POLI 350: Int'l Relations	_____	_____
3 s.h. ECON 355: Int'l Trade & Finance	_____	_____
6 s.h International Relations Electives (see below)	_____	_____
_____	_____	_____
_____	_____	_____

Electives:

POLI 250: US Foreign Policy	_____	_____
POLI 308: Politics of Africa	_____	_____
POLI 315: Politics in Developing Nations	_____	_____
POLI 320: Politics of Latin America	_____	_____
POLI 322: International Political Economy	_____	_____
POLI 335: Politics of Global Health	_____	_____
POLI 370: UN and International Organizations	_____	_____
HIST 390: Contemporary World Problems	_____	_____

C. Global Economy Track

- 3 s.h. History – non-U.S.
- 3 s.h. ECON 355: Int'l Trade & Finance
- 15 s.h. Global Economic Electives (see below)

Course	Semester Taken	Grade
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Electives:

- HIST 311: International Business History
- POLI 315: Politics in Developing Nations
- POLI 322: International Political Economy
- ECON 310: Intermediate Macroeconomics
- ECON 315: Intermediate Microeconomics
- ECON 330: Economic Development
- ECON340: Money and Banking
- ECON 350: Comparative Economic Systems
- MANG425: International Business

D. Human Geography Track

	Semester Taken	Grade
3 s.h. GEOG 260: World Reg. Geog*	_____	_____
3 s.h. GEOG212: Developing World	_____	_____
15 s.h. Electives (see below)	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

***Or additional GEOG elective if GEOG 260 included in core**

Electives (15 s.h. maximum 6 from any discipline)

- ANTH330 Japanese Culture and Society
- ANTH328 Anthropology of Women
- ANTH422 Anthropology of Latin America
- ECON355 International Trade and Finance
- GEOG305 Conservation of Natural Resources
- GEOG401 Special Problems in Geography
- GEOG440 Economic Geography
- HIST390 Contemporary World Problems
- Non-US History
- POLI350 International Relations
- POLI315 Politics of Developing Nations
- POLI335 Politics of Global Health

E. Latin American Studies Track

9 semester hours Latin American History (see below)

Course	Semester Taken	Grade
_____	_____	_____
_____	_____	_____
_____	_____	_____
GEOG445 Geography Latin Am.	_____	_____
ANTH422 Anthropology Latin Am.	_____	_____
6 s.h. Spanish Language component (see below)	_____	_____
_____	_____	_____
_____	_____	_____

Electives in history (9 s.h.):

- HIST367 Colonial Latin American History
- HIST377 Modern Latin American History
- HIST375 History of Mexico and Central America
- HIST390* Contemporary World Problems
- HIST499* Independent Study

Spanish Language electives (6 s.h.):

- SPAN308 Introduction to Spanish American Literature
- SPAN322 Spanish American Regionalist Novel and Short Story
- SPAN323 Spanish American Contemporary Novel and Short Story
- SPAN499* Independent Study
- SPAN259* Special Topics: Contemporary Hispanic Culture through Mass Media

*Course is suitable when focused on Latin American topics.

Requirements for the Bachelor of Science in Mathematics

Name:

ID#:

Advisor:

Requirement	Course Number/Name	s.h.	Date Completed	Grade
Composition		3		
Literature		3		
Philosophy	PHIL	3		
Art/Music/Theater/Dance (6s.h.)				
Speech		3		
World History	HIST	3		
Political Science or Economics		3		
Sociology or Anthropology or Geography or Social Work		3		
Psychology	PSYC	3		
Lab Science		3		
Lab Science		3		
Mathematics	MATH141 Calculus 1	3		
Wellness (3 s.h.)				
Elective		3		
Elective		3		
Elective		3		
Elective		3		
Elective		3		
Elective		3		
Elective		3		
Elective		3		
Elective		3		
	Total General Education S.H.	69		

Major Requirements

Requirement	Course Number/Name	s.h.	Date Completed	Grade
Core Courses	COMP160 Programming 1	3		
	MATH142 Calculus 2	3		
	MATH205 Foundations of Mathematics	3		
	MATH243 Calculus 3	3		
	MATH244 Calculus 4	3		
	MATH310 Modern Algebra 1	3		
	MATH311 Elements of Linear Algebra	3		
	MATH401 Real Analysis 1	3		
Major Electives				
Choose 27 s.h. of course work with at least 6 s.h. from each of the Pure Discipline and at least 6 s.h. from Applied Discipline.				
Pure Discipline				
	MATH225 History of Mathematics	3		
	MATH302 Number Theory	3		
	MATH307 Foundations of Geometry	3		
	MATH402 Real Analysis 2	3		
	MATH405 Complex Analysis	3		
	MATH410 Topology	3		
	MATH420 Modern Algebra 2	3		
	MATHX59 Special Topics in Mathematics	3		
Applied Discipline				
	COMP161 Programming 2	3		
	MATH301 Differential Equations	3		
	MATH312 Probability and Statistics	3		
	MATH313 Mathematical Statistics 1	3		
	MATH320 Linear Programming	3		
	MATH4XX Biomathematics	3		
	MATH4XX Actuarial Mathematics	3		
	MATH4XX Nonlinear Programming	3		
	MATH4XX Mathematical Statistics 2	3		
	MATHX59 Special Topics in Mathematics	3		
	Total Major S.H.	51		
	Total Program S.H.	120		

General-Education Overlays

Students are also responsible for meeting General Education requirements in Writing Emphasis (WE), Multicultural Emphasis (MC), Information Literacy (IL), and External Experiences (EE). Select courses wisely to meet these requirements. These courses can count as overlays as well as General Education or Major courses.

NOTE: If a single course contains more than one designation (e.g., WE, MC, and IL), then students may count all of the designations towards fulfilling their emphases requirements. These requirements may be fulfilled by any course so designated.

Overlay	Course Number	Date Completed
MC-1		
MC-2		
WE-1		
WE-2		
WE-3		
IL-1		
IL-2		
EE-1		
EE-2		

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN MATHEMATICS: ACTUARIAL
SCIENCE TRACK
LOCK HAVEN UNIVERSITY OF PENNSYLVANIA**

Name: _____

Advisor: _____

Required Total Number of Credit Hours for Graduation = 120

GENERAL EDUCATION: REQUIRED (TOTAL = 58 S.H.)

CURRICULUM AREA	COURSE NUMBER/ COURSE NAME	MINIMUM GRADE REQUIRE D	OVERLAYS	SEMESTER HOURS
Composition				3 s.h.
Philosophy				3 s.h.
Speech				3 s.h.
Literature				3 s.h.
Art/Music/Theater/Dance				3 s.h.
Art/Music/Theater/Dance				3 s.h.
Wellness				3 s.h.
Lab Science				3 s.h.
Lab Science				3 s.h.
Mathematics	MATH 141 Calculus 1			3 s.h.
Psychology				3 s.h.
Socio./Anthro./Geog./S. W.				3 s.h.
World History				3 s.h.
Govt./Econ./Pol.Sci.	ECON 101 Principles of Economics			3 s.h.
Elective				3 s.h.
Elective				3 s.h.
Elective				3 s.h.
Elective				3 s.h.
Elective				3 s.h.
Elective				1 s.h.

MATHEMATICS CORE REQUIREMENTS (TOTAL = 38 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
COMP160: Programming 1			3 s.h.
MATH142: Calculus 2			3 sh.
MATH205: Foundations of Mathematics			3 s.h.
MATH243: Calculus 3			3 s.h.
MATH244: Calculus 4			3 s.h.
MATH301: Differential Equations			3 s.h.
MATH311: Elements of Linear Algebra			3 s.h.
MATH312: Probability and Statistics			3 s.h.
MATH313: Mathematical Statistics			3 s.h.
MATH320: Linear Programming			3 s.h.
MATH4XX: Applied Statistics			3 s.h.
MATH4XX: Actuarial Mathematics			3 s.h.
MATH369 or MATH499: Internship or Independent Research with Presentation			2 s.h.

MATHEMATICS ELECTIVES (TOTAL = 9 S.H.)			
COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
			3 s.h.
			3 sh.
			3 s.h.

At least two courses must be numbered 200 or higher, excluding the following courses: MATH 200, MATH 211, MATH 215, MATH 316, MATH 493, and MATH 494

BUSINESS, MANAGEMENT AND ECONOMICS CORE REQUIREMENTS (TOTAL = 3 S.H.)			
COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
ACCT110: Financial Accounting			3 s.h.

BUSINESS, MANAGEMENT AND ECONOMICS ELECTIVES (TOTAL = 12 S.H.)			
Choose four courses from the following:			
COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
ACCT335: Intermediate Accounting 1			3 s.h.
ACCT340: Intermediate Accounting 2			3 s.h.
ECON301: Economics of the Environment			3 sh.
ECON310: Intermediate Macroeconomics			3 s.h.
ECON315: Intermediate Microeconomics			3 s.h.
ECON355: International Trade and Finance			3 s.h.
ECON360: Current Economics Problems			3 s.h.
ECON410: Econometrics (<i>prerequisite</i> ECON310 and 315)			3 s.h.
ECON415: Mathematical Economics (<i>prerequisite</i> ECON310 and 315)			3 s.h.
ECON320: American Public Finance			3 s.h.
ECON340: Money and Banking			3 s.h.
MANG325: Financial Management (<i>prerequisite</i> ECON101 and ACCT110)			3 s.h.
MANG326: Fundamentals of Investment Management (<i>prerequisite</i> MANG325)			3 s.h.

General –Education Overlays

Students are also responsible for meeting General Education requirements in Writing Emphasis (WE), Multicultural Emphasis (MC), Information Literacy (IL), and External Experiences (EE). Select courses wisely to meet these requirements. These courses can count as Overlays as well as General Education or Major courses.

NOTE: If a single course contains more than one designation (e.g. WE, MC, and IL), then a student may count all of the designations towards fulfilling their emphasis requirements. These requirements may be fulfilled by any course so designated.

Overlay	Course Number	Date Completed
MC-1		
MC-2		
WE-1		
WE-2		
WE-3		
IL-1		
IL-2		
EE-1		
EE-2		

Requirements for the Bachelor of Science in Mathematics: Biomathematics Track

Name:

ID#:

Advisor:

Requirement	Course Number/Name	s.h.	Date Completed	Grade
Composition		3		
Literature		3		
Philosophy	PHIL	3		
Art/Music/Theatre/Dance (6s.h.)				
Speech		3		
World History	HIST	3		
Political Science or Economics		3		
Sociology or Anthropology or Geography or Social Work		3		
Psychology	PSYC	3		
Lab Science	BIOL106 Principles of Biology 1	3		
Lab Science	BIOL107 Principles of Biology 2	3		
Mathematics	MATH141 Calculus 1	3		
Wellness (3 s.h.)				
Elective		3		
Elective		3		
Elective		3		
Elective		3		
Elective		1		
	Total General Education S.H.	55		

Major Requirements

Requirement	Course Number/Name	s.h.	Date Completed	Grade
Core Courses	COMP160 Programming 1	3		
	MATH142 Calculus 2	3		
	MATH205 Foundations of Mathematics	3		
	MATH243 Calculus 3	3		
	MATH244 Calculus 4	3		
	MATH301 Differential Equations	3		
	MATH311 Elements of Linear Algebra	3		
	MATH312 Probability and Statistics	3		
	MATH313 Mathematical Statistics 1	3		
	MATH320 Linear Programming	3		
	MATH4XX Biomathematics	3		
	MATH4XX Internship or Independent Res.	1		
	CHEM120 Principles of Chemistry 1	4		
	CHEM121 Principles of Chemistry 2	4		
Major Electives				
Math Elective (3 s.h.) Choose 1 course from the following list				
	MATH350 Numerical Methods	3		
	MATH4XX Mathematical Statistics 2	3		
	MATH4XX Nonlinear Programming	3		
Science Electives (20 s.h.) Chosen from the following list				
	BIOL202 Genetics	3		
	BIOL206 Botany	3		
	BIOL220 DNA Methods in Biology	1		
	BIOL302 Developmental Biology Prereq. BIOL202.	3		
	BIOL309 Ecology	3		
	BIOL340 Microbiology Prereq. BIOL202	4		
	BIOL310 Immunology Prereq. BIOL202 & 340	2		
	BIOL323 Bioinformatics and Genomics Prereq. BIOL202	3		
	BIOL330 Cellular and Molecular Biology Prereq. BIOL202, CHEM220 & CHEM221	4		
	BIOL345 Advanced DNA Methods Prereq. BIOL202 or BIOL330	3		
	BIOL402 Biological Evolution Prereq. Biol202	3		
	BIOL405 Field Ecology Prereq. BIOL309	3		
	BIOL410 Organismal Physiology Prereq. 6 additional s.h. of 200 and 300 level Biology	3		
	BIOL425 Environmental Toxicology Prereq. BIOL340 and CHEM205 or 220	3		
	BIOL440 Environmental Microbiology Prereq. BIOL340 and CHEM205 or 220	3		
	CHEM205 Introduction to Organic Chemistry	4		
	CHEM220 Organic Chemistry 1	4		
	CHEM221 Organic Chemistry 2	4		
	CHEM410 Biochemistry Prereq. CHEM205 or 221	4		
	CHEM415 Biochemistry 2 Prereq. CHEM410	4		
	Total Major S.H.	65		
	Total Program S.H.	120		

General-Education Overlays

Students are also responsible for meeting General Education requirements in Writing Emphasis (WE), Multicultural Emphasis (MC), Information Literacy (IL), and External Experiences (EE). Select courses wisely to meet these requirements. These courses can count as overlays as well as General Education or Major courses.

NOTE: If a single course contains more than one designation (e.g., WE, MC, and IL), then students may count all of the designations towards fulfilling their emphases requirements. These requirements may be fulfilled by any course so designated.

Overlay	Course Number	Date Completed
MC-1		
MC-2		
WE-1		
WE-2		
WE-3		
IL-1		
IL-2		
EE-1		
EE-2		

ELEMENTARY/MIDDLE LEVEL EDUCATION (GRADES 4-8) PROGRAM SHEET

Name _____

Students are also responsible to meet requirements in the general education program regarding Writing Emphasis, Multicultural Emphasis, Information Literacy, and External Experiences.

GENERAL EDUCATION		
Composition	ENGL 100 -Composition	3
#Philosophy		3
#Speech	COMM 102, 103	3
Literature	ENGL 110 - Introduction to Literature	3
#Art/Music/Theater/ Dance		3
#Art/Music/Theater/ Dance		3
Lab Science	PHYS 101- Matter and Energy	3
Lab Science	CHEM 101 -Chemistry in the Environment	3
Mathematics	MATH 102 -Number Systems	3
Psychology	PSYC103-Adolescent Psychology	3
Sociology/ Anthropology	GEOG 260-World Regional Geography	3
World History		3
Gov/Economics	POLI 105-American National Government	3
#Wellness		3
EDUCATION CORE COURSES		
ELML119	First Year Seminar for Elementary and Middle Level Education Students	1
ELML 2--	Learning Theory for Middle Level Learners	3
ELML 2--	Introduction to Language Arts Methods for Elementary and Middle Grades	1
PSYC 201	Educational Psychology	3
ELML 3--	Assessment and Differentiation in the 4-8 Classroom	3
ELML 4--	Interventions and Classroom Management Strategies for Middle Level Learners	3
ELML 4--	Curriculum Development	2
ELML 493	Student Teaching and Professional Practicum: Elementary and Middle Level I	6
ELML 494	Student Teaching and Professional Practicum: Elementary and Middle Level II	6
SPECIAL EDUCATION COURSES		
SPEC 2--	Cognitive Development for Diverse Learners	3
SPEC 3--	Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3

Stand Alone General Education Courses

SCIENCE (BIOLOGY) – OPTION 1

BIOLOGY CONTENT COURSES		
BIOL 106	Principles of Biology I	3
CHEM 101	Chemistry in the Environment*	3
Introductory Level Course	Choose 1: BIOL 108 Field Natural History BIOL 110 Introduction to Microbiology PHYS 102 The Mechanical Universe PHYS 110 How Things Work PHYS135 Meteorology PHYS 140 Astronomy of the Solar System PHYS 145 Stars, Galaxies, and Cosmology CHEM 105 Forensic Chemistry CHEM 111 Chemistry of Nutrition GEOS 110 Physical Geology GEOS 120 Oceanography SCI 201 Inquiry into Physical Science SCI 1-- Science, Technology, and Society	3
BIOL 102	Environmental Science	3
GEOS 101	Earth Science	3
PHYS 101	Matter and Energy*	3
BIOL 107	Principles of Biology II	3
Advanced Level Courses	Choose 2: BIOL 200 Marine Biology BIOL 202 Genetics BIOL 205 Marine Ecology BIOL 206 Botany BIOL 240 Zoology	6
ELML 3--	Science for the Elementary and Middle Level Learner	3
OTHER CONTENT AREA COURSES		
LANGUAGE ARTS/READING		
ENGL 100	Composition*	3
ENGL 110	Introduction to Literature*	3
ELML 3--	Language Acquisition Theory and Writing Instruction	3
ELML 3--	Effective Instructional Literary Strategies	3
SOCIAL STUDIES		
POLI 105	American National Government*	3
HIST 101 or HIST 102	World History I or World History II*	3
HIST 150	American History	3
GEOG 260	World Regional Geography*	3
MATHEMATICS		
MATH 102	Number Systems*	3
MATH 113	PreCalculus	3
MATH 215	Statistics and Geometry	3
ELML 3--	Mathematics for the Elementary and Middle Level Learner	3
METHODS COURSES		
ELML 4--	Science Methods for Elementary and Middle Grades III	3
ELML 4--	Social Studies Methods for Elementary and Middle Grades I	1
ELML 4--	Mathematics Methods for Elementary and Middle Grades I	1

* Also meets General Education Requirements

ELEMENTARY/MIDDLE LEVEL EDUCATION (GRADES 4-8) PROGRAM SHEET

Name _____

Students are also responsible to meet requirements in the general education program regarding Writing Emphasis, Multicultural Emphasis, Information Literacy, and External Experiences.

GENERAL EDUCATION		
Composition	ENGL 100 -Composition	3
#Philosophy		3
#Speech	COMM 102, 103	3
Literature	ENGL 110 - Introduction to Literature	3
#Art/Music/Theater/ Dance		3
#Art/Music/Theater/ Dance		3
Lab Science	PHYS 101- Matter and Energy	3
Lab Science	CHEM 101 -Chemistry in the Environment	3
Mathematics	MATH 102 -Number Systems	3
Psychology	PSYC103-Adolescent Psychology	3
Sociology/ Anthropology	GEOG 260-World Regional Geography	3
World History		3
Gov/Economics	POLI 105-American National Government	3
#Wellness		3
EDUCATION CORE COURSES		
ELML119	First Year Seminar for Elementary and Middle Level Education Students	1
ELML 2--	Learning Theory for Middle Level Learners	3
ELML 2--	Introduction to Language Arts Methods for Elementary and Middle Grades	1
PSYC 201	Educational Psychology	3
ELML 3--	Assessment and Differentiation in the 4-8 Classroom	3
ELML 4--	Interventions and Classroom Management Strategies for Middle Level Learners	3
ELML 4--	Curriculum Development	2
ELML 493	Student Teaching and Professional Practicum: Elementary and Middle Level I	6
ELML 494	Student Teaching and Professional Practicum: Elementary and Middle Level II	6
SPECIAL EDUCATION COURSES		
SPEC 2--	Cognitive Development for Diverse Learners	3
SPEC 3--	Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3

Stand Alone General Education Courses

SCIENCE (GEOLOGY) – OPTION 1

GEOLOGY CONTENT COURSES		
GEOS 130	Principles of Geology I	3
Introductory Level Course	Choose 1: BIOL 108 Field Natural History BIOL 110 Introduction to Microbiology PHYS 102 The Mechanical Universe PHYS 110 How Things Work PHYS135 Meteorology PHYS 140 Astronomy of the Solar System PHYS 145 Stars, Galaxies, and Cosmology CHEM 105 Forensic Chemistry CHEM 111 Chemistry of Nutrition GEOS 110 Physical Geology GEOS 120 Oceanography SCI 201 Inquiry into Physical Science SCI 1-- Science, Technology, and Society	3
BIOL 102	Environmental Science	3
CHEM 101	Chemistry in the Environment*	3
PHYS 101	Matter and Energy*	3
BIOL 101	Basic Biology	3
Advanced Level Courses	Choose 3: GEOS 131 Principles of Geology II GEOS 213 Introduction to Geographic Information Systems GEOS 215 Environmental Geology GEOS 230 Geomorphology GEOS 301 Invertebrate Paleontology GEOS 305 Mineralogy and Petrology GEOS 315 Sedimentology	9
ELML 3--	Science for the Elementary and Middle Level Learner	3
OTHER CONTENT AREA COURSES		
LANGUAGE ARTS/READING		
ENGL 100	Composition*	3
ENGL 110	Introduction to Literature*	3
ELML 3--	Language Acquisition Theory and Writing Instruction	3
ELML 3--	Effective Instructional Literary Strategies	3
SOCIAL STUDIES		
POLI 105	American National Government*	3
HIST 101 or HIST 102	World History I or World History II*	3
HIST 150	American History	3
GEOG 260	World Regional Geography*	3
MATHEMATICS		
MATH 102	Number Systems*	3
MATH 113	PreCalculus	3
MATH 215	Statistics and Geometry	3
ELML 3--	Mathematics for the Elementary and Middle Level Learner	3
METHODS COURSES		
ELML 4--	Science Methods for Elementary and Middle Grades III	3
ELML 4--	Social Studies Methods for Elementary and Middle Grades I	1
ELML 4--	Mathematics Methods for Elementary and Middle Grades I	1

* Also meets General Education Requirements

Created January 9, 2010

ELEMENTARY/MIDDLE LEVEL EDUCATION (GRADES 4-8) PROGRAM SHEET

Name _____

Students are also responsible to meet requirements in the general education program regarding Writing Emphasis, Multicultural Emphasis, Information Literacy, and External Experiences.

GENERAL EDUCATION		
Composition	ENGL 100 -Composition	3
#Philosophy		3
#Speech	COMM 102, 103	3
Literature	ENGL 110 - Introduction to Literature	3
#Art/Music/Theater/ Dance		3
#Art/Music/Theater/ Dance		3
Lab Science	PHYS 101- Matter and Energy	3
Lab Science	CHEM 101 -Chemistry in the Environment	3
Mathematics	MATH 102 -Number Systems	3
Psychology	PSYC103-Adolescent Psychology	3
Sociology/ Anthropology	GEOG 260-World Regional Geography	3
World History		3
Gov/Economics	POLI 105-American National Government	3
#Wellness		3
EDUCATION CORE COURSES		
ELML119	First Year Seminar for Elementary and Middle Level Education Students	1
ELML 2--	Learning Theory for Middle Level Learners	3
ELML 2--	Introduction to Language Arts Methods for Elementary and Middle Grades	1
PSYC 201	Educational Psychology	3
ELML 3--	Assessment and Differentiation in the 4-8 Classroom	3
ELML 4--	Interventions and Classroom Management Strategies for Middle Level Learners	3
ELML 4--	Curriculum Development	2
ELML 493	Student Teaching and Professional Practicum: Elementary and Middle Level I	6
ELML 494	Student Teaching and Professional Practicum: Elementary and Middle Level II	6
SPECIAL EDUCATION COURSES		
SPEC 2--	Cognitive Development for Diverse Learners	3
SPEC 3--	Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3

Stand Alone General Education Courses

SCIENCE (BIOLOGY)/ENGLISH, LANGUAGE ARTS, AND READING - OPTION 2

ENGLISH, LANGUAGE ARTS, AND READING CONTENT COURSES		
ENGL 100	Composition*	3
ENGL 110	Introduction to Literature*	3
READ 300	Intermediate Reading	3
ENGL 235	Literature for Adolescent and Young Adults	3
ELML 3--	Language Acquisition Theory and Writing Instruction	3
ELML 3--	Effective Instructional Literary Strategies	3
ELML 3--	Language Arts for the Elementary and Middle Level Learner	3
BIOLOGY CONTENT COURSES		
BIOL 106	Principles of Biology I	3
CHEM 101	Chemistry in the Environment*	3
GEOS 101	Earth Science	3
PHYS 101	Matter and Energy*	3
BIOL 107	Principles of Biology II	3
BIOL 309	Ecology	3
ELML 3--	Science for the Elementary and Middle Level Learner	3
OTHER CONTENT AREA COURSES		
MATHEMATICS		
MATH 102	Number Systems*	3
MATH 113	PreCalculus	3
MATH 215	Statistics and Geometry	3
ELML 3--	Mathematics for the Elementary and Middle Level Learner	3
SOCIAL STUDIES		
POLI 105	American National Government*	3
HIST 101 or HIST 102	World History I or World History II*	3
HIST 150	American History	3
GEOG 260	World Regional Geography*	3
METHODS COURSES		
ELML 4--	Language Arts for Elementary and Middle Grades I	1
ELML 4--	Science Methods for Elementary and Middle Grades II	2
ELML 4--	Mathematics Methods for Elementary and Middle Level Grades 1	1
ELML 4--	Social Studies Methods for Elementary and Middle Grades I	1

* Also meets General Education Requirements

ELEMENTARY/MIDDLE LEVEL EDUCATION (GRADES 4-8) PROGRAM SHEET

Name _____

Students are also responsible to meet requirements in the general education program regarding Writing Emphasis, Multicultural Emphasis, Information Literacy, and External Experiences.

GENERAL EDUCATION		
Composition	ENGL 100 -Composition	3
#Philosophy		3
#Speech	COMM 102, 103	3
Literature	ENGL 110 - Introduction to Literature	3
#Art/Music/Theater/ Dance		3
#Art/Music/Theater/ Dance		3
Lab Science	PHYS 101- Matter and Energy	3
Lab Science	CHEM 101 -Chemistry in the Environment	3
Mathematics	MATH 102 -Number Systems	3
Psychology	PSYC103-Adolescent Psychology	3
Sociology/ Anthropology	GEOG 260-World Regional Geography	3
World History		3
Gov/Economics	POLI 105-American National Government	3
#Wellness		3
EDUCATION CORE COURSES		
ELML119	First Year Seminar for Elementary and Middle Level Education Students	1
ELML 2--	Learning Theory for Middle Level Learners	3
ELML 2--	Introduction to Language Arts Methods for Elementary and Middle Grades	1
PSYC 201	Educational Psychology	3
ELML 3--	Assessment and Differentiation in the 4-8 Classroom	3
ELML 4--	Interventions and Classroom Management Strategies for Middle Level Learners	3
ELML 4--	Curriculum Development	2
ELML 493	Student Teaching and Professional Practicum: Elementary and Middle Level I	6
ELML 494	Student Teaching and Professional Practicum: Elementary and Middle Level II	6
SPECIAL EDUCATION COURSES		
SPEC 2--	Cognitive Development for Diverse Learners	3
SPEC 3--	Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3

Stand Alone General Education Courses

SCIENCE (GEOLOGY)/ENGLISH, LANGUAGE ARTS, AND READING - OPTION 2

ENGLISH, LANGUAGE ARTS, AND READING CONTENT COURSES		
ENGL 100	Composition*	3
ENGL 110	Introduction to Literature*	3
READ 300	Intermediate Reading	3
ENGL 235	Literature for Adolescent and Young Adults	3
ELML 3--	Language Acquisition Theory and Writing Instruction	3
ELML 3--	Effective Instructional Literary Strategies	3
ELML 3--	Language Arts for the Elementary and Middle Level Learner	3
GEOLOGY CONTENT COURSES		
GEOS 130	Principles of Geology I	3
CHEM 101	Chemistry in the Environment*	3
PHYS 101	Matter and Energy*	3
BIOL 101	Basic Biology	3
Advanced Level Courses	Choose 1: GEOS 131 Principles of Geology II GEOS 213 Introduction to Geographic Information Systems GEOS 215 Environmental Geology GEOS 230 Geomorphology GEOS 301 Invertebrate Paleontology GEOS 305 Mineralogy and Petrology GEOS 315 Sedimentology	3
BIOL 309	Ecology	3
ELML 3--	Science for the Elementary and Middle Level Learner	3
OTHER CONTENT AREA COURSES		
MATHEMATICS		
MATH 102	Number Systems*	3
MATH 113	PreCalculus	3
MATH 215	Statistics and Geometry	3
ELML 3--	Mathematics for the Elementary and Middle Level Learner	3
SOCIAL STUDIES		
POLI 105	American National Government*	3
HIST 101 or HIST 102	World History I or World History II*	3
HIST 150	American History	3
GEOG 260	World Regional Geography*	3
METHODS COURSES		
ELML 4--	Language Arts for Elementary and Middle Grades I	1
ELML 4--	Science Methods for Elementary and Middle Grades II	2
ELML 4--	Mathematics Methods for Elementary and Middle Level Grades 1	1
ELML 4--	Social Studies Methods for Elementary and Middle Grades I	1

* Also meets General Education Requirements

Created January 9, 2010

ELEMENTARY/MIDDLE LEVEL EDUCATION (GRADES 4-8) PROGRAM SHEET

Name _____

Students are also responsible to meet requirements in the general education program regarding Writing Emphasis, Multicultural Emphasis, Information Literacy, and External Experiences.

GENERAL EDUCATION		
Composition	ENGL 100 -Composition	3
#Philosophy		3
#Speech	COMM 102, 103	3
Literature	ENGL 110 - Introduction to Literature	3
#Art/Music/Theater/ Dance		3
#Art/Music/Theater/ Dance		3
Lab Science	PHYS 101- Matter and Energy	3
Lab Science	CHEM 101 -Chemistry in the Environment	3
Mathematics	MATH 102 -Number Systems	3
Psychology	PSYC103-Adolescent Psychology	3
Sociology/ Anthropology	GEOG 260-World Regional Geography	3
World History		3
Gov/Economics	POLI 105-American National Government	3
#Wellness		3
EDUCATION CORE COURSES		
ELML119	First Year Seminar for Elementary and Middle Level Education Students	1
ELML 2--	Learning Theory for Middle Level Learners	3
ELML 2--	Introduction to Language Arts Methods for Elementary and Middle Grades	1
PSYC 201	Educational Psychology	3
ELML 3--	Assessment and Differentiation in the 4-8 Classroom	3
ELML 4--	Interventions and Classroom Management Strategies for Middle Level Learners	3
ELML 4--	Curriculum Development	2
ELML 493	Student Teaching and Professional Practicum: Elementary and Middle Level I	6
ELML 494	Student Teaching and Professional Practicum: Elementary and Middle Level II	6
SPECIAL EDUCATION COURSES		
SPEC 2--	Cognitive Development for Diverse Learners	3
SPEC 3--	Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3

Stand Alone General Education Courses

MATHEMATICS/ENGLISH, LANGUAGE ARTS, AND READING - OPTION 2

MATHEMATICS CONTENT COURSES		
MATH 102	Number Systems*	3
MATH 107	Basic Statistics	3
MATH 113	PreCalculus	3
MATH 141	Calculus	3
MATH 205	Foundations of Mathematics	3
MATH 215	Statistics and Geometry	3
ELML 3--	Mathematics for the Elementary and Middle Level Learner	3
ENGLISH, LANGUAGE ARTS, AND READING COURSES		
ENGL 100	Composition*	3
ENGL 110	Introduction to Literature*	3
READ 300	Intermediate Reading	3
ENGL 235	Literature for Adolescent and Young Adults	3
ELML 3--	Language Acquisition Theory and Writing Instruction	3
ELML 3--	Effective Instructional Literary Strategies	3
ELML 3--	Language Arts for the Elementary and Middle Level Learner	3
OTHER CONTENT AREA COURSES		
SCIENCE		
CHEM 101	Chemistry in the Environment*	3
PHYS 101	Matter and Energy*	3
BIOL 101	Basic Biology	3
GEOS 101	Earth Science	3
SOCIAL STUDIES		
POLI 105	American National Government*	3
HIST 101 or HIST 102	World History I or World History II*	3
HIST 150	American History	3
GEOG 260	World Regional Geography*	3
METHODS COURSES		
ELML 4--	Mathematics Methods for Elementary and Middle Grades II	2
ELML 4--	Language Arts Methods for the Elementary and Middle Grades I	1
ELML 4--	Science Methods for Elementary and Middle Grades I	1
ELML 4--	Social Studies Methods for Elementary and Middle Grades I	1

* Also meets General Education Requirements

ELEMENTARY/MIDDLE LEVEL EDUCATION (GRADES 4-8) PROGRAM SHEET

Name _____

Students are also responsible to meet requirements in the general education program regarding Writing Emphasis, Multicultural Emphasis, Information Literacy, and External Experiences.

GENERAL EDUCATION		
Composition	ENGL 100 -Composition	3
#Philosophy		3
#Speech	COMM 102, 103	3
Literature	ENGL 110 - Introduction to Literature	3
#Art/Music/Theater/ Dance		3
#Art/Music/Theater/ Dance		3
Lab Science	PHYS 101- Matter and Energy	3
Lab Science	CHEM 101 -Chemistry in the Environment	3
Mathematics	MATH 102 -Number Systems	3
Psychology	PSYC103-Adolescent Psychology	3
Sociology/ Anthropology	GEOG 260-World Regional Geography	3
World History		3
Gov/Economics	POLI 105-American National Government	3
#Wellness		3
EDUCATION CORE COURSES		
ELML119	First Year Seminar for Elementary and Middle Level Education Students	1
ELML 2--	Learning Theory for Middle Level Learners	3
ELML 2--	Introduction to Language Arts Methods for Elementary and Middle Grades	1
PSYC 201	Educational Psychology	3
ELML 3--	Assessment and Differentiation in the 4-8 Classroom	3
ELML 4--	Interventions and Classroom Management Strategies for Middle Level Learners	3
ELML 4--	Curriculum Development	2
ELML 493	Student Teaching and Professional Practicum: Elementary and Middle Level I	6
ELML 494	Student Teaching and Professional Practicum: Elementary and Middle Level II	6
SPECIAL EDUCATION COURSES		
SPEC 2--	Cognitive Development for Diverse Learners	3
SPEC 3--	Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3

Stand Alone General Education Courses

ENGLISH, LANGUAGE ARTS, READING – OPTION 1

ENGLISH, LANGUAGE ARTS, READING CONTENT COURSES		
ENGL 100	Composition*	3
ENGL 110	Introduction to Literature*	3
THEA 110	Theatre: An Orientation	3
READ 300	Intermediate Reading	3
ENGL 235	Literature for Adolescent and Young Adults	3
ENGL 315 or ENGL 357	Composition Usage and Editing Techniques or Advanced Composition, Rhetoric, and Writing Instruction	3
ENGL 405	Grammars of English	3
ELML 3--	Language Acquisition Theory and Writing Instruction	3
ELML 3--	Effective Instructional Literary Strategies	3
ELML 3--	Language Arts for the Elementary and Middle Level Learner	3
OTHER CONTENT AREA COURSES		
MATHEMATICS		
MATH 102	Number Systems*	3
MATH 113	PreCalculus	3
MATH 215	Statistics and Geometry	3
ELML 3--	Mathematics for the Elementary and Middle Level Learner	3
SOCIAL STUDIES		
POLI 105	American National Government*	3
HIST 101 or HIST 102	World History I or World History II*	3
HIST 150	American History	3
GEOG 260	World Regional Geography*	3
SCIENCE		
CHEM 101	Chemistry in the Environment*	3
PHYS 101	Matter and Energy*	3
BIOL 101	Basic Biology	3
GEOS 101	Earth Science	3
METHODS COURSES		
ELML 4--	Language Arts Methods for Elementary and Middle Grades II	2
ELML 4--	Mathematics Methods for Elementary and Middle Grades I	1
ELML 4--	Social Studies Methods for Elementary and Middle Grades I	1
ELML 4--	Science Methods for Elementary and Middle Grades I	1

* Also meets General Education Requirements

ELEMENTARY/MIDDLE LEVEL EDUCATION (GRADES 4-8) PROGRAM SHEET

Name _____

Students are also responsible to meet requirements in the general education program regarding Writing Emphasis, Multicultural Emphasis, Information Literacy, and External Experiences.

GENERAL EDUCATION		
Composition	ENGL 100 -Composition	3
#Philosophy		3
#Speech	COMM 102, 103	3
Literature	ENGL 110 - Introduction to Literature	3
#Art/Music/Theater/ Dance		3
#Art/Music/Theater/ Dance		3
Lab Science	PHYS 101- Matter and Energy	3
Lab Science	CHEM 101 -Chemistry in the Environment	3
Mathematics	MATH 102 -Number Systems	3
Psychology	PSYC103-Adolescent Psychology	3
Sociology/ Anthropology	GEOG 260-World Regional Geography	3
World History		3
Gov/Economics	POLI 105-American National Government	3
#Wellness		3
EDUCATION CORE COURSES		
ELML119	First Year Seminar for Elementary and Middle Level Education Students	1
ELML 2--	Learning Theory for Middle Level Learners	3
ELML 2--	Introduction to Language Arts Methods for Elementary and Middle Grades	1
PSYC 201	Educational Psychology	3
ELML 3--	Assessment and Differentiation in the 4-8 Classroom	3
ELML 4--	Interventions and Classroom Management Strategies for Middle Level Learners	3
ELML 4--	Curriculum Development	2
ELML 493	Student Teaching and Professional Practicum: Elementary and Middle Level I	6
ELML 494	Student Teaching and Professional Practicum: Elementary and Middle Level II	6
SPECIAL EDUCATION COURSES		
SPEC 2--	Cognitive Development for Diverse Learners	3
SPEC 3--	Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3

Stand Alone General Education Courses

MATHEMATICS/SCIENCE (BIOLOGY) – OPTION 2

MATHEMATICS CONTENT COURSES		
MATH 102	Number Systems*	3
MATH 107	Basic Statistics	3
MATH 113	PreCalculus	3
MATH 141	Calculus	3
MATH 205	Foundations of Mathematics	3
MATH 215	Statistics and Geometry	3
ELML 3--	Mathematics for the Elementary and Middle Level Learner	3
BIOLOGY CONTENT COURSES		
BIOL 106	Principles of Biology I	3
CHEM 101	Chemistry in the Environment*	3
GEOS 101	Earth Science	3
PHYS 101	Matter and Energy*	3
BIOL 107	Principles of Biology II	3
BIOL 309	Ecology	3
ELML 3--	Science for the Elementary and Middle Level Learner	3
OTHER COTENT AREA COURSES		
LANGUAGE ARTS/READING		
ENGL 100	Composition*	3
ENGL 110	Introduction to Literature*	3
ELML 3--	Language Acquisition Theory and Writing Instruction	3
ELML 3--	Effective Instructional Literary Strategies	3
SOCIAL STUDIES		
POLI 105	American National Government*	3
HIST 101 or HIST 102	World History I or World History II*	3
HIST 150	American History	3
GEOG 260	World Regional Geography*	3
METHODS COURSES		
ELML 4--	Mathematics Methods for Elementary and Middle Grades II	2
ELML 4--	Science Methods for Elementary and Middle Grades II	2
ELML 4--	Social Studies Methods for Elementary and Middle Grades I	1

* Also meets General Education Requirements

ELEMENTARY/MIDDLE LEVEL EDUCATION (GRADES 4-8) PROGRAM SHEET

Name _____

Students are also responsible to meet requirements in the general education program regarding Writing Emphasis, Multicultural Emphasis, Information Literacy, and External Experiences.

GENERAL EDUCATION		
Composition	ENGL 100 -Composition	3
#Philosophy		3
#Speech	COMM 102, 103	3
Literature	ENGL 110 - Introduction to Literature	3
#Art/Music/Theater/ Dance		3
#Art/Music/Theater/ Dance		3
Lab Science	PHYS 101- Matter and Energy	3
Lab Science	CHEM 101 -Chemistry in the Environment	3
Mathematics	MATH 102 -Number Systems	3
Psychology	PSYC103-Adolescent Psychology	3
Sociology/ Anthropology	GEOG 260-World Regional Geography	3
World History		3
Gov/Economics	POLI 105-American National Government	3
#Wellness		3
EDUCATION CORE COURSES		
ELML119	First Year Seminar for Elementary and Middle Level Education Students	1
ELML 2--	Learning Theory for Middle Level Learners	3
ELML 2--	Introduction to Language Arts Methods for Elementary and Middle Grades	1
PSYC 201	Educational Psychology	3
ELML 3--	Assessment and Differentiation in the 4-8 Classroom	3
ELML 4--	Interventions and Classroom Management Strategies for Middle Level Learners	3
ELML 4--	Curriculum Development	2
ELML 493	Student Teaching and Professional Practicum: Elementary and Middle Level I	6
ELML 494	Student Teaching and Professional Practicum: Elementary and Middle Level II	6
SPECIAL EDUCATION COURSES		
SPEC 2--	Cognitive Development for Diverse Learners	3
SPEC 3--	Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3

Stand Alone General Education Courses

MATHEMATICS/SCIENCE (GEOLOGY) – OPTION 2

MATHEMATICS CONTENT COURSES		
MATH 102	Number Systems*	3
MATH 107	Basic Statistics	3
MATH 113	PreCalculus	3
MATH 141	Calculus	3
MATH 205	Foundations of Mathematics	3
MATH 215	Statistics and Geometry	3
ELML 3--	Mathematics for the Elementary and Middle Level Learner	3
GEOLOGY CONTENT COURSES		
GEOS 130	Principles of Geology I	3
CHEM 101	Chemistry in the Environment*	3
PHYS 101	Matter and Energy*	3
BIOL 101	Basic Biology	3
Advanced Level Courses	Choose 1: GEOS 131 Principles of Geology II GEOS 213 Introduction to Geographic Information Systems GEOS 215 Environmental Geology GEOS 230 Geomorphology GEOS 301 Invertebrate Paleontology GEOS 305 Mineralogy and Petrology GEOS 315 Sedimentology	3
BIOL 309	Ecology	3
ELML 3--	Science for the Elementary and Middle Level Learner	3
OTHER CONTENT AREA COURSES		
LANGUAGE ARTS/READING		
ENGL 100	Composition*	3
ENGL 110	Introduction to Literature*	3
ELML 3--	Language Acquisition Theory and Writing Instruction	3
ELML 3--	Effective Instructional Literary Strategies	3
SOCIAL STUDIES		
POLI 105	American National Government*	3
HIST 101 or HIST 102	World History I or World History II*	3
HIST 150	American History	3
GEOG 260	World Regional Geography*	3
METHODS COURSES		
ELML 4--	Mathematics Methods for Elementary and Middle Grades II	2
ELML 4--	Science Methods for Elementary and Middle Grades II	2
ELML 4--	Social Studies Methods for Elementary and Middle Grades I	1

* Also meets General Education Requirements

ELEMENTARY/MIDDLE LEVEL EDUCATION (GRADES 4-8) PROGRAM SHEET

Name _____

Students are also responsible to meet requirements in the general education program regarding Writing Emphasis, Multicultural Emphasis, Information Literacy, and External Experiences.

GENERAL EDUCATION		
Composition	ENGL 100 -Composition	3
#Philosophy		3
#Speech	COMM 102, 103	3
Literature	ENGL 110 - Introduction to Literature	3
#Art/Music/Theater/ Dance		3
#Art/Music/Theater/ Dance		3
Lab Science	PHYS 101- Matter and Energy	3
Lab Science	CHEM 101 -Chemistry in the Environment	3
Mathematics	MATH 102 -Number Systems	3
Psychology	PSYC103-Adolescent Psychology	3
Sociology/ Anthropology	GEOG 260-World Regional Geography	3
World History		3
Gov/Economics	POLI 105-American National Government	3
#Wellness		3
EDUCATION CORE COURSES		
ELML119	First Year Seminar for Elementary and Middle Level Education Students	1
ELML 2--	Learning Theory for Middle Level Learners	3
ELML 2--	Introduction to Language Arts Methods for Elementary and Middle Grades	1
PSYC 201	Educational Psychology	3
ELML 3--	Assessment and Differentiation in the 4-8 Classroom	3
ELML 4--	Interventions and Classroom Management Strategies for Middle Level Learners	3
ELML 4--	Curriculum Development	2
ELML 493	Student Teaching and Professional Practicum: Elementary and Middle Level I	6
ELML 494	Student Teaching and Professional Practicum: Elementary and Middle Level II	6
SPECIAL EDUCATION COURSES		
SPEC 2--	Cognitive Development for Diverse Learners	3
SPEC 3--	Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3

Stand Alone General Education Courses

MATHEMATICS – OPTION 1

MATHEMATICS CONTENT COURSES		
MATH 102	Number Systems*	3
MATH 107	Basic Statistics	3
MATH 112	Intermediate Algebra	3
MATH 113	PreCalculus	3
MATH 141	Calculus	3
MATH 205	Foundations of Mathematics	3
MATH 215	Statistics and Geometry	3
MATH 302	Number Theory	3
MATH 307	Foundations of Geometry	3
ELML 3--	Mathematics for the Elementary and Middle Level Learner	3
OTHER CONTENT AREA COURSES		
LANGUAGE ARTS/READING		
ENGL 100	Composition*	3
ENGL 110	Introduction to Literature*	3
ELML 3--	Language Acquisition Theory and Writing Instruction	3
ELML 3--	Effective Instructional Literary Strategies	3
SOCIAL STUDIES		
POLI 105	American National Government*	3
HIST 101 or HIST 102	World History I or World History II*	3
HIST 150	American History	3
GEOG 260	World Regional Geography*	3
SCIENCE		
CHEM 101	Chemistry in the Environment*	3
PHYS 101	Matter and Energy*	3
BIOL 101	Basic Biology	3
GEOS 101	Earth Science	3
METHODS COURSES		
ELML 4--	Mathematics Methods for Elementary and Middle Grades III	3
ELML 4--	Social Studies Methods for Elementary and Middle Grades I	1
ELML 4--	Science Methods for Elementary and Middle Grades I	1

* Also meets General Education Requirements

ELEMENTARY/MIDDLE LEVEL EDUCATION (GRADES 4-8) PROGRAM SHEET

Name _____

Students are also responsible to meet requirements in the general education program regarding Writing Emphasis, Multicultural Emphasis, Information Literacy, and External Experiences.

GENERAL EDUCATION		
Composition	ENGL 100 -Composition	3
#Philosophy		3
#Speech	COMM 102, 103	3
Literature	ENGL 110 - Introduction to Literature	3
#Art/Music/Theater/ Dance		3
#Art/Music/Theater/ Dance		3
Lab Science	PHYS 101- Matter and Energy	3
Lab Science	CHEM 101 -Chemistry in the Environment	3
Mathematics	MATH 102 -Number Systems	3
Psychology	PSYC103-Adolescent Psychology	3
Sociology/ Anthropology	GEOG 260-World Regional Geography	3
World History		3
Gov/Economics	POLI 105-American National Government	3
#Wellness		3
EDUCATION CORE COURSES		
ELML119	First Year Seminar for Elementary and Middle Level Education Students	1
ELML 2--	Learning Theory for Middle Level Learners	3
ELML 2--	Introduction to Language Arts Methods for Elementary and Middle Grades	1
PSYC 201	Educational Psychology	3
ELML 3--	Assessment and Differentiation in the 4-8 Classroom	3
ELML 4--	Interventions and Classroom Management Strategies for Middle Level Learners	3
ELML 4--	Curriculum Development	2
ELML 493	Student Teaching and Professional Practicum: Elementary and Middle Level I	6
ELML 494	Student Teaching and Professional Practicum: Elementary and Middle Level II	6
SPECIAL EDUCATION COURSES		
SPEC 2--	Cognitive Development for Diverse Learners	3
SPEC 3--	Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3

Stand Alone General Education Courses

SOCIAL STUDIES/SCIENCE (BIOLOGY) – OPTION 2

SOCIAL STUDIES CONTENT COURSES		
ECON 101	Principles of Economics	3
POLI 105	American National Government*	3
HIST 111 or HIST 112	Global History I* or Global History II	3
HIST 300/400	Any 300/400 level American History course	3
HIST 300/400	Any 300/400 level Non Western History course	3
GEOG 260	World Regional Geography*	3
ELML 3--	Social Sciences for the Elementary and Middle Level Learner	3
BIOLOGY CONTENT COURSES		
BIOL 106	Principles of Biology I	3
CHEM 101	Chemistry in the Environment*	3
GEOS 101	Earth Science	3
PHYS 101	Matter and Energy*	3
BIOL 107	Principles of Biology II	3
BIOL 309	Ecology	3
ELML 3--	Science for the Elementary and Middle Level Learner	3
OTHER CONTENT AREA COURSES		
LANGUAGE ARTS/READING		
ENGL 100	Composition*	3
ENGL 110	Introduction to Literature*	3
ELML 3--	Language Acquisition Theory and Writing Instruction	3
ELML 3--	Effective Instructional Literary Strategies	3
MATHEMATICS		
MATH 102	Number Systems*	3
MATH 113	PreCalculus	3
MATH 215	Statistics and Geometry	3
ELML 3--	Mathematics for the Elementary and Middle Level Learner	3
METHODS COURSES		
ELML 4--	Social Studies Methods for Elementary and Middle Grades II	2
ELML 4--	Science Methods for Elementary and Middle Grades II	2
ELML 4--	Mathematics Methods for Elementary and Middle Grades I	1

* Also meets General Education Requirements

ELEMENTARY/MIDDLE LEVEL EDUCATION (GRADES 4-8) PROGRAM SHEET

Name _____

Students are also responsible to meet requirements in the general education program regarding Writing Emphasis, Multicultural Emphasis, Information Literacy, and External Experiences.

GENERAL EDUCATION		
Composition	ENGL 100 -Composition	3
#Philosophy		3
#Speech	COMM 102, 103	3
Literature	ENGL 110 - Introduction to Literature	3
#Art/Music/Theater/ Dance		3
#Art/Music/Theater/ Dance		3
Lab Science	PHYS 101- Matter and Energy	3
Lab Science	CHEM 101 -Chemistry in the Environment	3
Mathematics	MATH 102 -Number Systems	3
Psychology	PSYC103-Adolescent Psychology	3
Sociology/ Anthropology	GEOG 260-World Regional Geography	3
World History		3
Gov/Economics	POLI 105-American National Government	3
#Wellness		3
EDUCATION CORE COURSES		
ELML119	First Year Seminar for Elementary and Middle Level Education Students	1
ELML 2--	Learning Theory for Middle Level Learners	3
ELML 2--	Introduction to Language Arts Methods for Elementary and Middle Grades	1
PSYC 201	Educational Psychology	3
ELML 3--	Assessment and Differentiation in the 4-8 Classroom	3
ELML 4--	Interventions and Classroom Management Strategies for Middle Level Learners	3
ELML 4--	Curriculum Development	2
ELML 493	Student Teaching and Professional Practicum: Elementary and Middle Level I	6
ELML 494	Student Teaching and Professional Practicum: Elementary and Middle Level II	6
SPECIAL EDUCATION COURSES		
SPEC 2--	Cognitive Development for Diverse Learners	3
SPEC 3--	Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3

Stand Alone General Education Courses

SOCIAL STUDIES/SCIENCE (GEOLOGY) – OPTION 2

SOCIAL STUDIES CONTENT COURSES		
ECON 101	Principles of Economics	3
POLI 105	American National Government*	3
HIST 111 or HIST 112	Global History I* or Global History II	3
HIST 300/400	Any 300/400 level American History course	3
HIST 300/400	Any 300/400 level Non Western History course	3
GEOG 260	World Regional Geography*	3
ELML 3--	Social Sciences for the Elementary and Middle Level Learner	3
GEOLOGY CONTENT COURSES		
GEOS 130	Principles of Geology I	3
CHEM 101	Chemistry in the Environment*	3
PHYS 101	Matter and Energy*	3
BIOL 101	Basic Biology	3
Advanced Level Courses	Choose 1: GEOS 131 Principles of Geology II GEOS 213 Introduction to Geographic Information Systems GEOS 215 Environmental Geology GEOS 230 Geomorphology GEOS 301 Invertebrate Paleontology GEOS 305 Mineralogy and Petrology GEOS 315 Sedimentology	3
BIOL 309	Ecology	3
ELML 3--	Science for the Elementary and Middle Level Learner	3
OTHER CONTENT AREA COURSES		
LANGUAGE ARTS/READING		
ENGL 100	Composition*	3
ENGL 110	Introduction to Literature*	3
ELML 3--	Language Acquisition Theory and Writing Instruction	3
ELML 3--	Effective Instructional Literary Strategies	3
MATHEMATICS		
MATH 102	Number Systems*	3
MATH 113	PreCalculus	3
MATH 215	Statistics and Geometry	3
ELML 3--	Mathematics for the Elementary and Middle Level Learner	3
METHODS COURSES		
ELML 4--	Social Studies Methods for Elementary and Middle Grades II	2
ELML 4--	Science Methods for Elementary and Middle Grades II	2
ELML 4--	Mathematics Methods for Elementary and Middle Grades I	1

* Also meets General Education Requirements

ELEMENTARY/MIDDLE LEVEL EDUCATION (GRADES 4-8) PROGRAM SHEET

Name _____

Students are also responsible to meet requirements in the general education program regarding Writing Emphasis, Multicultural Emphasis, Information Literacy, and External Experiences.

GENERAL EDUCATION		
Composition	ENGL 100 -Composition	3
#Philosophy		3
#Speech	COMM 102, 103	3
Literature	ENGL 110 - Introduction to Literature	3
#Art/Music/Theater/ Dance		3
#Art/Music/Theater/ Dance		3
Lab Science	PHYS 101- Matter and Energy	3
Lab Science	CHEM 101 -Chemistry in the Environment	3
Mathematics	MATH 102 -Number Systems	3
Psychology	PSYC103-Adolescent Psychology	3
Sociology/ Anthropology	GEOG 260-World Regional Geography	3
World History		3
Gov/Economics	POLI 105-American National Government	3
#Wellness		3
EDUCATION CORE COURSES		
ELML119	First Year Seminar for Elementary and Middle Level Education Students	1
ELML 2--	Learning Theory for Middle Level Learners	3
ELML 2--	Introduction to Language Arts Methods for Elementary and Middle Grades	1
PSYC 201	Educational Psychology	3
ELML 3--	Assessment and Differentiation in the 4-8 Classroom	3
ELML 4--	Interventions and Classroom Management Strategies for Middle Level Learners	3
ELML 4--	Curriculum Development	2
ELML 493	Student Teaching and Professional Practicum: Elementary and Middle Level I	6
ELML 494	Student Teaching and Professional Practicum: Elementary and Middle Level II	6
SPECIAL EDUCATION COURSES		
SPEC 2--	Cognitive Development for Diverse Learners	3
SPEC 3--	Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3

Stand Alone General Education Courses

SOCIAL STUDIES/MATHEMATICS – OPTION 2

SOCIAL STUDIES CONTENT COURSES		
ECON 101	Principles of Economics	3
POLI 105	American National Government*	3
HIST 111 or HIST 112	Global History I* or Global History II	3
HIST 300/400	Any 300/400 level American History course	3
HIST 300/400	Any 300/400 level Non Western History course	3
GEOG 260	World Regional Geography*	3
ELML 3--	Social Sciences for the Elementary and Middle Level Learner	3
MATHEMATICS CONTENT COURSES		
MATH 102	Number Systems*	3
MATH 107	Basic Statistics	3
MATH 113	PreCalculus	3
MATH 141	Calculus	3
MATH 205	Foundations of Mathematics	3
MATH 215	Statistics and Geometry	3
ELML 3--	Mathematics for the Elementary and Middle Level Learner	3
OTHER CONTENT AREA COURSES		
LANGUAGE ARTS/READING		
ENGL 100	Composition*	3
ENGL 110	Introduction to Literature*	3
ELML 3--	Language Acquisition Theory and Writing Instruction	3
ELML 3--	Effective Instructional Literary Strategies	3
SCIENCE		
CHEM 101	Chemistry in the Environment*	3
PHYS 101	Matter and Energy*	3
BIOL 101	Basic Biology	3
GEOS 101	Earth Science	3
METHODS COURSES		
ELML 4--	Social Studies Methods for Elementary and Middle Grades II	2
ELML 4--	Mathematics Methods for Elementary and Middle Grades II	2
ELML 4--	Science Methods for Elementary and Middle Grades I	1

* Also meets General Education Requirements

ELEMENTARY/MIDDLE LEVEL EDUCATION (GRADES 4-8) PROGRAM SHEET

Name _____

Students are also responsible to meet requirements in the general education program regarding Writing Emphasis, Multicultural Emphasis, Information Literacy, and External Experiences.

GENERAL EDUCATION		
Composition	ENGL 100 -Composition	3
#Philosophy		3
#Speech	COMM 102, 103	3
Literature	ENGL 110 - Introduction to Literature	3
#Art/Music/Theater/ Dance		3
#Art/Music/Theater/ Dance		3
Lab Science	PHYS 101- Matter and Energy	3
Lab Science	CHEM 101 -Chemistry in the Environment	3
Mathematics	MATH 102 -Number Systems	3
Psychology	PSYC103-Adolescent Psychology	3
Sociology/ Anthropology	GEOG 260-World Regional Geography	3
World History		3
Gov/Economics	POLI 105-American National Government	3
#Wellness		3
EDUCATION CORE COURSES		
ELML119	First Year Seminar for Elementary and Middle Level Education Students	1
ELML 2--	Learning Theory for Middle Level Learners	3
ELML 2--	Introduction to Language Arts Methods for Elementary and Middle Grades	1
PSYC 201	Educational Psychology	3
ELML 3--	Assessment and Differentiation in the 4-8 Classroom	3
ELML 4--	Interventions and Classroom Management Strategies for Middle Level Learners	3
ELML 4--	Curriculum Development	2
ELML 493	Student Teaching and Professional Practicum: Elementary and Middle Level I	6
ELML 494	Student Teaching and Professional Practicum: Elementary and Middle Level II	6
SPECIAL EDUCATION COURSES		
SPEC 2--	Cognitive Development for Diverse Learners	3
SPEC 3--	Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3

Stand Alone General Education Courses

SOCIAL STUDIES - OPTION 1

SOCIAL STUDIES CONTENT COURSES		
ECON 101	Principles of Economics	3
POLI 105	American National Government*	3
HIST 111	Global History I*	3
HIST 112	Global History II	3
HIST 201	American History	3
HIST 245	History of Pennsylvania	3
HIST 300/400	Any 300/400 level American History course	3
HIST 300/400	Any 300/400 level Non Western History course	3
GEOG 260	World Regional Geography*	3
ELML 3--	Social Sciences for the Elementary and Middle Level Learner	3
OTHER CONTENT AREA COURSES		
LANGUAGE ARTS/READING		
ENGL 100	Composition*	3
ENGL 110	Introduction to Literature*	3
ELML 3--	Language Acquisition Theory and Writing Instruction	3
ELML 3--	Effective Instructional Literary Strategies	3
MATHEMATICS		
MATH 102	Number Systems*	3
MATH 113	PreCalculus	3
MATH 215	Statistics and Geometry	3
ELML 3--	Mathematics for the Elementary and Middle Level Learner	3
SCIENCE		
CHEM 101	Chemistry in the Environment*	3
PHYS 101	Matter and Energy*	3
BIOL 101	Basic Biology	3
GEOS 101	Earth Science	3
METHODS COURSES		
ELML 4--	Social Studies Methods for Elementary and Middle Grades III	3
ELML 4--	Mathematics Methods for Elementary and Middle Grades I	1
ELML 4--	Science Methods for Elementary and Middle Grades I	1

* Also meets General Education Requirements

BACHELOR OF ART IN MUSIC DEGREE

(record of earned credits)

Name _____

Student ID# _____ Entrance Date _____

Transfer credits from _____ Advisor _____

*Total of 120 s.h.
(needed for degree)*

GENERAL EDUCATION - 52 s.h. required

- Art/Music/Theatre..... 6
- Literature..... 3
- Philosophy..... 3
- Composition..... 3
- Speech..... 3
- 18

- World History..... 3
- Government/Economics..... 3
- Psychology..... 3
- Sociology/Anthropology..... 3
- 12

- Lab Science..... 6
- Mathematics..... 3

- HPER..... 3

ELECTIVES

- 1
- 3
- 3
- 3
- 10

- ** Music for Children with Special Need.. 3
- ** Music for Early Childhood..... 3
- ** Music for Elementary Grades..... 3
- ** Music in Recreation..... 3

Piano Proficiency Met Date: _____

Designed as support courses for the College of Education; may be taken **ONLY as General Education electives by any Music Major.

REQUIRED COURSES - 44 s.h.

- *Applied Music
- Major performance area..... 16
- Music History and Literature..... 9
 - Music from 1450-1800
 - Music of the Romantic Period
 - Twentieth Century Music
- Music Theory..... 12
 - Music Theory I
 - Music Theory II
 - Music Theory III
 - Music Theory IV
- Conducting and Score Reading..... 3

REQUIRED SUPPORTING COURSES - 4 s.h.

- Philosophy of Art..... 3
- Fundamentals of Movement and Rhythm..... 1

ELECTIVES - 20 s.h. required

- Introduction to Music..... 3
- Music: Exploring Contemporary Trends in Rock
Jazz & Musical Theatre..... 3
- Choral Seminar..... 2
- *Music Ensemble Performance (per term)..... 4
- Class Piano I..... 2
- Class Piano II..... 2
- American Music..... 3
- Symphonic Music..... 3
- Music for the Theatre..... 3
- Piano Pedagogy..... 3
- Seminar: Ethnic Music..... 3
- Seminar: Music and Politics..... 3
- Sound (Acoustics)..... 3
- Independent Study..... 1/2/3
- Individualized Instruction..... 1/2/3

*As an extension of the applied recital requirement met lesson, each music major will be required to date specified student recitals, perform, attend concerts, and participate in one or more ensemble(s) each semester.

BACHELOR OF FINE ARTS IN MUSIC

(record of earned credits)

Name _____

Social Security # _____ Entrance Date _____

Transfer credits from _____ Advisor _____

**Total of 120 s.h.
(needed for degree)**

GENERAL EDUCATION - 52 s.h. required

- Art/Music/Theatre.....6
 - Literature.....3
 - Philosophy.....3
 - Composition.....3
 - Speech.....3
- 18**

- World History.....3
 - Government/Economics.....3
 - Psychology.....3
 - Sociology/Anthropology.....3
- 12**

- Lab Science.....6
 - Mathematics.....3
 - HPER.....3
- 18**

ELECTIVES

-3
 -3
 -3
 -1
- 10**

- ** Music for Children with Special Need ..3
- ** Music for Early Childhood3
- ** Music for Elementary Grades3
- ** Music in Recreation.....3

Piano Proficiency Met Date: _____

Recital Requirement Met Date _____

**Designed as support courses for the College of Education; may be taken ONLY as General Education electives by any Music Major.

Revised 05/2003

REQUIRED COURSES - 44 s.h.

- *Applied Music
 - Major performance area..... 16
 - Minor Performance area..... 4
- Music History and Literature..... 9
 - Music from 1450-1800
 - Music of the Romantic Period
 - Twentieth Century Music
- Music Theory..... 12
 - Music Theory I
 - Music Theory II
 - Music Theory III
 - Music Theory IV
 - Conducting and Score Reading..... 3

REQUIRED SUPPORTING COURSES - 4 s.h.

- Philosophy of Art..... 3
- Fundamentals of Movement & Rhythm 1

ELECTIVES - 20 s.h. required

- Introduction to Music..... 3
- Music: Exploring Contemporary Trends in Rock
Jazz & Musical Theatre..... 3
- Choral Seminar..... 2
- *Music Ensemble Performance (per term)..... 4
- Class Piano I..... 2
- Class Piano II.....2
- American Music..... 3
- Symphonic Music..... 3
- Music for the Theatre..... 3
- Piano Pedagogy.....3
- Seminar: Ethnic Music3
- Seminar: Music and Politics..... 3
- Sound (Acoustics) 3
- Independent Study1/2/3
- Individualized Instruction.....1/2/3

*As an extension of the applied recital requirement met lesson, each music major will be required to date specified student recitals, perform, attend concerts, and participate in one or more ensemble(s) each semester.

Bachelor of Arts with Music Marketing Track Checksheet

Full Name: _____ ID # _____

Entrance Date: _____ Transfer Credits From: _____

Advisor: _____

12 Student Recitals Requirement met (Advisor's Signature) _____ Date of Completion _____

28 hours of External Experiences Completed (Advisor's Signature) _____ Date of Completion: _____

General and Special Education Requirements

- Wellness Core** 3
- Skills Core** 9
- English Composition 3
- Mathematics (Math 102 Number Systems)..... 3
- Speech3
- Humanities** 12
- Art/Music/Theatre/Dance..... 6
- Literature 3
- Philosophy 3
- Social and Behavioral Sciences**12
- World History 3
- Political Science or Economics 3
- Psychology..... 3
- Sociology, Anthropology, or Geography 3
- Natural Sciences** 6
- Biological Sciences, Chemistry
Geology, or Physics 6
- Liberal Arts Seminars** 9
- Musi 328 Ethnic Music Seminar..... 3
- Social Sciences..... 3
- Natural Sciences..... 3
- Foreign Language (completion through level IV).... 12
- Overlay Requirements**
- 3 courses WE (writing emphasis)
- 2 courses IL (information literacy)
- 2 courses MC (multicultural)
- 2 units (28 hours) EE (external experience)

Total General Education 63

BA Music Marketing Course Requirements

- Marketing** 15
- Mrkt 200 Introduction to Marketing 3
- Mrkt 300 Consumer Marketing 3
- Mrkt 305 Internet Marketing and e-Commerce 3
- Mrkt 310 Entrepreneurial and
Small Business Marketing 3
- Mrkt 410 Marketing Research3
- Music History Literature** 4
- Musi 400 Music History after 1750 2
- Musi 312 Music History to 1750 2
- Applied Instruction** 8
- Musi 121 or a Combination of Musi 121/1228
- Methods Courses** 7
- Musi 124 Percussion Methods 1
- Musi 128 String Methods – Upper Strings 1
- Musi 118 String Methods – Lower Strings 1
- Musi 119 Woodwind Methods – Concert Winds 1
- Musi 129 Woodwind Methods – Transposing Winds .. 1
- Musi 326 Brass Methods – Lower Brass 1
- Musi 336 Brass Methods – Upper Brass 1
- Required Supporting Courses** 23
- Musi 108 Music Explorations 2
- Musi 109 Group Piano I 1
- Musi 109 Group Piano II 1
- Musi 203 Theory I 2
- Musi 204 Theory II 2
- Musi 111-116 Ensembles8
- Musi 205 Music Technology..... 1
- Musi 105 Contemporary Trends..... 3
- Musi 3—Music Marketing 3

Total Music Marketing Requirements 57

Total General Education and Music Marketing Requirements: 120

Students enrolled in the Music Marketing Degree must complete 28 hours of external experiences before graduation. Students will be.

A pretest will be given to those enrolled in the Music Marketing major to see if there are deficiencies in music history or music theory or both. Those students showing such deficiency will need to enroll in either MUSI 101 (Introduction to Music) or MUSI 103 (Basic Musicianship) or both as the Art/Music/Theatre/Dance General Education courses.

Bachelor of Arts with Music Education Certification Checksheet For Music Education Students Entering the Program On or After the Fall, 2009 Semester

Full Name: _____ ID # _____

Entrance Date: _____ Transfer Credits From: _____

Advisor: _____ Candidacy Granted: _____ Date: _____

Candidacy Handbook Approved: _____ Developing Portfolio Approved: _____ Senior Portfolio Approved: _____

Piano Proficiency Passed _____ Date of Completion _____ Senior Recital or 12 Student Recital Performances _____

General and Special Education Requirements

Wellness Core 3

Skills Core 12

English Composition 3

Mathematics (Math 102 Number Systems)..... 3

Mathematics (Math 215 Statistics and Geometry) 3

Speech3

Humanities 12

Art/Music/Theatre/Dance

Musi 109 Group Piano I 1

Musi 210 Group Piano II1

Musi 203 Theory I 2

Musi 204 Theory II2

Literature 3

Philosophy 3

Social and Behavioral Sciences15

World History 3

Political Science or Economics 3

Psychology

Child Development (Psyc 102) 3

Adolescent Development (Psych 103) 3

Sociology, Anthropology, or Geography 3

Natural Sciences 6

Biological Sciences, Chemistry

Geology, or Physics 6

Special Education Courses (After January 1, 2009)..... 12

Spec 202 Cultural and Linguistic Diversity
in Education.....3

Spec 204 Cognitive Development of Diverse
Learners..... 3

Spec 309 Effective Instructional Strategies for
Students with Disabilities in Inclusive Settings..... 3

Spec 3XX Literacy Instruction for Students
with Disabilities.....3

Total General Education 60

BA Music Education (K-12) Course Requirements

Music Theory 6

Musi 322 Theory III 3

Musi 340 Theory IV (Technology and Orchestration). 3

Music History Literature 4

Musi 312 Music History to 1750 2

Musi 400 Music History after 1750 2

Seminars 3

Musi 328 Ethnic Music Seminar 3

Applied Instruction 7

Musi 121 or a Combination of Musi 121/1227

Methods Courses16

Musi 106 Voice Methods and Foreign Diction 1

Musi 124 Percussion Methods 1

Musi 128 String Methods – Upper Strings 1

Musi 118 String Methods – Lower Strings 1

Musi 119 Woodwind Methods – Concert Winds 1

Musi 129 Woodwind Methods – Transposing Winds .. 1

Musi 326 Brass Methods – Lower Brass 1

Musi 336 Brass Methods – Upper Brass 1

Musi 303 Instrumental and Vocal Methods 2

Musi 317 Elementary Music Methods 3

Musi 318 Secondary Music Methods 3

Required Supporting Courses21

Musi 108 Music Explorations 2

Musi 111-116 Ensembles 7

Musi 200 Music for Children with Special Needs2

Musi 300 General Conducting2

Musi 305 Jazz Studies2

Musi 325 Classroom Measurements and Assessments ..2

Musi 330 Advanced Studies in Music (March Band)....1

Musi 302 Applied Conducting (Instrumental/Vocal). 2

Student Teaching/Practicum 12

Musi 493 Elementary Student Teaching/Practicum... 6

Musi 494 Secondary Student Teaching/Practicum 6

Total Music Education Requirements 68

Total General Education, Special Education, and Music Education Requirement: 128

A Program Leading to the Degree of Associate in Applied Science in Nanotechnology

Primary objective of this program is to train sophomore BS degree students in all science disciplines in the techniques of Nanotechnology so that students can then apply this knowledge by pursuing a research project under the direction of a faculty member in their discipline from the Nanotechnology Group in the senior year. They will use the newly developed Nanotechnology Laboratory facilities for this purpose.

The secondary objective of this program of study is to produce graduates who are capable technicians well-educated in the latest techniques for Nano-manufacturing with a firm grounding in the scientific and mathematical bases of their field and the breadth of a mind diversified by studies in the liberal arts.

One semester of this program will be offered at PSU's \$30 million nanofabrication facility where students will learn the latest techniques and instrumentation in the developing multidisciplinary field of Nanotechnology. As a part of a state-wide effort in developing workforce in this area, Pennsylvania Department of Economic Development, PSU & the State System of Higher Education have in place a tuition agreement that will allow our students to pay the local tuition for the semester at PSU.

This associate degree program is designed with two tracks, one in Physical Sciences and the other in Biological Sciences, so that graduates can proceed to obtain a BS degree in another two years in Biology, Chemistry, Computer Science, Math, Health Science or Physics. By having both these degrees the students will have very strong employment opportunity in industry as plant managers, technical personnel and engineers.

Associate Degree in Nanotechnology (Physical Science)

Degree requirements

General Education Requirements			18 s.h.¹
I. Wellness			3 s.h.
II. Skills Core			
English Composition(IL)			3 s.h.
Speech			3 s.h.
Mathematics-Math 141 (as below)			(3 s.h.)
III. Content Core			
A. Humanities(WE)			3 s.h.
B. Social and Behavioral Sciences (1MC)			6 s.h.
C. Natural Sciences –Phys 170 (as below)			(4 s.h.)
Major-Related Area Requirements			22 s.h.
Mathematics			
MATH141	Calculus I		3 s.h.
MATH142	Calculus II		3 s.h.
Physics			
PHYS170	Intermediate General Physics I		4 s.h.
PHYS171	Intermediate General Physics II(WE)		4 s.h.
Chemistry			
CHEM120	Principles of Chemistry I		4 s.h.
CHEM121	Principles of Chemistry II		4 s.h.
General Education Overlay Requirements			
Multicultural (MC)	1 course	Information Literacy(IL)	1 course
Writing Emphasis(WE)	2 courses	External Experience(EE)	2 courses

¹ This balance of general education to major courses is within the parameters established by BOG Policy 1990-06-A: the general education component is more than 1/4 of the total semester hours.

Major Requirements **27 s.h.**

PSU(2EE¹)

PHAP201	Materials, Safety and Equipment Overview for Nanofabrication	3 s.h.
PHAP202	Basic Nanofabrication Process	3 s.h.
PHAP203	Thin Films in Nanofabrication	3 s.h.
PHAP204	Advanced Lithography and Dielectrics for Nanofabrication	3 s.h.
PHAP205	Materials Modification in Nanofabrication	3 s.h.
PHAP206	Characterization, Packaging, and Testing of Nanofabricated Structures	3 s.h.

LHU

PHAP100	Introduction to Nanoscience	1 s.h.
PHAP207	Thin Film Technology	4 s.h.
PHYS290	Electronics	4 s.h.

Electives (From the following*) **3 s.h.**

BIOL106	Principles of Biology I	3 s.h.
BIOL107	Principles of Biology II	3 s.h.
COMP160	Programming I	3 s.h.
COMP161	Programming II	3 s.h.
CHEM220	Organic Chemistry I	4 s.h.
CHEM221	Organic Chemistry II	4 s.h.

Total Semester Hours **70 s.h.**

Curriculum sequence

1st Semester (LHUP)

General Education (3)
General Education (3)
CHEM120 (4)
MATH141 (3)

Total 13 s.h.

2nd Semester (LHUP)

General Education (3)
CHEM121 (4)
PHYS170 (4)
MATH142 (3)

Total 14 s.h.

3rd Semester (LHUP)

General Education (3)
General Education (3)
PHYS171 (4)
Elective (3)

Total 13 s.h.

4th Semester (LHUP)

General Education (3)
PHYS290 (4)
Thin Film Technology (4)
PHAP100 (1)
Elective (3)*

Total 15 s.h.

5th Semester or Summer Extended Term (PSU)

PHAP201 (3)
PHAP202 (3)
PHAP203 (3)
PHAP204 (3)
PHAP205 (3)
PHAP206 (3)

Total 18 s.h.

Total for Program 70 s.h.

* Additional 3 hrs of Electives needed in the 4th Semester if continuing for a B.S. degree in Chemistry, Computer Science to be completed at the end of four years.

Associate Degree in Nanotechnology (Biological Science)

Degree requirements

General Education Requirements		18 s.h.²
I. Wellness		3 s.h.
II. Skills Core		
English Composition(IL)		3 s.h.
Speech		3 s.h.
Mathematics-Math 113 (as below)		(3 s.h.)
III. Content Core		
A. Humanities(WE)		3 s.h.
B. Social and Behavioral Sciences(1MC)		6 s.h.
C. Natural Sciences –Phys 130 (as below)		(4 s.h.)
Major-Related Area Requirements		25 s.h.
Mathematics		
MATH113	Pre-Calculus	3 s.h.
Biology		
BIOL 106	Principles of Biology I	3 s.h.
BIOL 107	Principles of Biology II(WE)	3 s.h.
Physics		
PHYS130	Physics I	4 s.h.
PHYS131	Physics II	4 s.h.
Chemistry		
CHEM120	Principles of Chemistry I	4 s.h.
CHEM121	Principles of Chemistry II	4 s.h.
General Education Overlay Requirements		
Multicultural (MC)	1 course	Information Literacy(IL) 1 course
Writing Emphasis(WE)	2 courses	External Experience(EE) 2 courses

² This balance of general education to major courses is within the parameters established by BOG Policy 1990-06-A: the general education component is more than 1/4 of the total semester hours.

Major Requirements **23 s.h.**

PSU(EE)

PHAP201	Materials, Safety and Equipment Overview for Nanofabrication	3 s.h.
PHAP202	Basic Nanofabrication Process	3 s.h.
PHAP203	Thin Films in Nanofabrication	3 s.h.
PHAP204	Advanced Lithography and Dielectrics for Nanofabrication	3 s.h.
PHAP205	Materials Modification in Nanofabrication	3 s.h.
PHAP206	Characterization, Packaging, and Testing of Nanofabricated Structures	3 s.h.

LHU

PHAP100	Introduction to Nanoscience	1 s.h.
PHAP207	Thin Film Technology	4 s.h.

Electives (2 or 3 courses from the following) **4 s.h.**

BIOL202	Genetics	3 s.h.
BIOL204	Introduction to DNA Forensics	1 s.h.
BIOL240	Zoology	3 s.h.
BIOL310	Immunology	2 s.h.
GEOS110	Physical Geology	3 s.h.
GEOS210	Historical Geology(WE)	3 s.h.

Total Semester Hours **70 s.h.**

Curriculum sequence

1st Semester (LHUP)

General Education (3)
BIOL106 (3)
CHEM120 (4)
MATH113 (3)

Total 13 s.h.

2nd Semester (LHUP)

General Education (3)
CHEM121 (4)
BIOL107 (3)
General Education (3)
General Education (3)

Total 16 s.h.

Summer Term1&2 (LHUP)

PHYS130(4)
PHYS131(4)

Total 8 s.h.

3rd Semester (PSU)

PHAP201 (3)
PHAP202 (3)
PHAP203 (3)
PHAP204 (3)
PHAP205 (3)
PHAP206 (3)

Total 18 s.h.

4th Semester

General Education (3)
Elective (3)
PHAP100 (1)
Thin Film Technology (4)
General Education (3)
Elective (3, 2 or 1)

Total 17 s.h.

Total for Program 70 s.h.

Lock Haven University Clearfield Campus
Associate of Science in Nursing – REQUIRED COURSE SEQUENCE
CURRICULUM WORKSHEET

Name: _____ ID# _____ Advisor: _____

FIRST SEMESTER (Fall)

ENGL100 English Composition (3 cr) _____
PSYC100 Intro to Psychology (3 cr) _____
HLTH128 Anatomy & Physiology I (3 cr) _____
HLTH129 Anatomy & Physiology I Lab (1 cr) _____
NURS101 Fundamental of Nursing (8 cr) _____

SECOND SEMESTER (Spring)

SOCI101 Intro to Sociology (3 cr) _____
PSYC240 Dev. Psych: Life Span (3 cr) _____
HLTH130 Anatomy & Physiology II (3 cr) _____
HLTH131 Anatomy & Physiology II Lab (1 cr) _____
NURS102 Nursing II (8 cr) _____

THIRD SEMESTER (Fall)

Math 101 (3 cr) (or higher level) _____
English Elective (3 cr) _____
BIOL215 Basic Microbiology (4 cr) _____
NURS201 Nursing III (8 cr) _____

FOURTH SEMESTER (Spring)

COMM102 Fund. of Public Speaking (3 cr) _____
* Humanities Elective (3 cr) _____
NURS202 Nursing IV (8 cr) _____
NURS212 Nursing Transition (2 cr) _____

TO COMPLETE THE PROGRAM, ALL STUDENTS MUST COMPLETE (20 HOURS) MULTICULTURAL EXPERIENCE

***Humanities Include:** Art, Music, Theatre, Languages, English, Literature, Philosophy, Film, Journalism, Mass Communication, and Speech courses other than Public Speaking
NURSING MAJORS: Maintenance of a minimum cumulative (overall) 2.70 GPA, and a C or above in nursing and science courses is required to progress in the program.
Any of the general education courses may be taken prior to acceptance into the A.S.N. program. However, once you are accepted into nursing you must complete the courses in the semester in which they are offered. If you transfer courses from another university, please remember that only your credits transfer, not your grades.

Total Credits Required for Graduation: 70

LOCK HAVEN UNIVERSITY-CLEARFIELD CAMPUS

Nursing Department

RN to Bachelor of Science in Nursing

BS CURRICULUM WORKSHEET (Includes AD coursework)

Name: _____ ID# _____ Advisor: _____

HUMANITIES (12)	12sh	Gr
Art/Music/Theatre/Dance (6)		
1)		
2)		
Literature (3)		
Philosophy (3)		

COURSES FROM AD/Diploma	17sh	Gr
HLTH128: Anatomy & Physiology I (3/4)		
HLTH129: Anatomy & Physiology I Lab (1)		
HLTH130: Anatomy & Physiology II (3/4)		
HLTH131: Anatomy & Physiology II Lab (1)		
Math101: Topic in Math (3) (or higher)		
Engl100: Composition (3)		
COMM102: Speech (3)		
PSYC240: Life Span Development (3)		

SOCIAL and BEHAVIORAL SCIENCES (12sh)	12sh	Gr
World History (3)		
Political Science (3) OR Economics (3)		
PSYC100: Psychology (AD)		
SOCI101: Sociology (AD) OR Anthropology (3sh)		

BSN NURSING COURSES (29)	29sh	Gr
NURS305: Nursing Informatics (3)		
NURS310: Foundations for Prof Practice (3)		
NURS315: Pathophysiology (3)		
NURS320: Health Assessment (3)		
NURS325: Pharmacology for Nurses (3)		
NURS350: Care of the Critically Ill (3)		
NURS410: Home, Community & Public Health (3)		
NURS420: Leadership & Mgmt in Practice (3)		
NURS430: Contemporary Issues, Policy & Politics (2)		
NURS490: Nursing Research (3)		

NATURAL SCIENCE (6sh)	6/7sh	Gr
Microbiology (AD) (3/4)		
Natural Science Gen Ed (3)		

AD/Diploma Nursing Courses	34sh	Gr
NURS101: Fundamentals of Nursing (8)		
NURS102: Nursing II (8)		
NURS201: Nursing III (8)		
NURS202: Nursing IV (8)		
NURS212: Nursing Transition (2)		
Block Credit for RN Program (34)		

Additional Course Requirements (7sh)	13sh	Gr
Wellness (3)		
CHEM111: Chem of Nutrition OR REC205: Nutrition for Wellness <i>(for both Wellness & Nutrition requirements)</i> (3)		
Elective (1)		
Elective (3)		
MATH107: Statistics (3)		

LOCK HAVEN UNIVERSITY
Clearfield Campus, Nursing Department
RN to BSN Completion Program
Suggested Course Sequence for Full-Time Status

CURRICULUM WORKSHEET

Name: _____ ID# _____ Advisor: _____

FIRST SEMESTER (Fall)

NURS325	Pharmacology and Nursing Process	(3 sh)	_____
--	Wellness (REC205*)	(3 sh)	_____
NURS310	Foundations for Professional Practice	(3 sh)	_____
NURS320	Health Assessment	(3 sh)	_____
		Total: (12 sh)	

SECOND SEMESTER (Spring)

CHEM111	Chemistry of Nutrition or (REC205*)	(3 sh)	_____
--	Humanities	(3 sh)	_____
NURS305	Nursing Informatics	(3 sh)	_____
NURS315	Pathophysiology	(3 sh)	_____
NURS350	Care of the Critically Ill	(3 sh)	_____
		Total: (15 sh)	

*REC205 will cover both requirements for Wellness and Nutrition

THIRD SEMESTER (Fall)

--	Social & Behavioral Science	(3 sh)	_____
--	Natural Science	(3 sh)	_____
NURS410	Nursing: Home, Community & Public Health	(3 sh)	_____
NURS420	Nursing Leadership & Management in Practice	(3 sh)	_____
		Total: (12 sh)	

FOURTH SEMESTER (Spring)

--	Social & Behavioral Science	(3 sh)	_____
--	Humanities	(3 sh)	_____
--	Elective	(1 sh)	_____
NURS490	Nursing Research	(3 sh)	_____
NURS430	Nursing: Contemporary Issues, Policy & Politics	(2 sh)	_____
		Total: (12 sh)	

Grand Total : (51 sh)

A minimum of "C" grade is required for A&PI, A&PI Lab, A&PII, A&PII Lab, Microbiology, and all NURS courses.
 GPA minimum requirement is 2.7.

General Education Overlays:

- 2 Multicultural _____, _____
- 3 Writing Emphasis _____, _____, _____
- 2 Information Literacy _____, _____
- 2 External Experience _____, _____

AD = 69/70 sh
 BSN = 51/50 sh
TOTAL FOR BSN = 120 sh

To participate in the online nursing program, it is essential to have an adequate computer, software, and internet connectivity. The student is required to complete the university web based student orientation tutorial through the Office of Academic Technology.

Students must earn 30 credits of the last 45 earned credits from LHU in order to receive the Bachelor's degree in Nursing.

Go to: http://www.lhup.edu/registrar/general_education_requirements.htm for list of BS general education core classes.

PHILOSOPHY, BA

Philosophy has historically provided the cornerstone of a classical liberal arts education. Students who are drawn to the study of philosophy are individuals who wish to understand the most fundamental truths about themselves and their relationships to reality. They seek to build a conceptual framework upon which to base their thinking. They are unsatisfied with the various simplistic "answers" to questions about ultimate reality and are driven to explore regions, which promise mental stimulation rather than stagnant certainty. Philosophy students receive from their discipline an intensification of their consciousness through an adventure among ideas.

The philosophy major generally seeks a career among the professions, especially law, theology, politics, social work and college teaching. The broad background which a philosophy major acquires meets the demand in both business and government for men and women who have been exposed, through training in the liberal arts, to a careful scrutiny of the history of conflicting ideas, ideals, and world views.

- A. General Education (73 sh total)
- B. Area Requirements (17 sh total -- see note below)
- C. Core Requirements (30 sh total)

PHIL 102 Ethics (also meets Philosophy Gen Ed requirement) 3 sh

One additional PHIL100 level course 3 sh

PHIL 201 Ancient Philosophy 3 sh

Two additional PHIL200 level courses 6 sh

PHIL 305 Metaphysics OR PHIL306 Theory of Knowledge 3 sh

PHIL 308 Logic 3 sh

One additional PHIL300 level course 3 sh

Philosophy Seminar 3 sh

PHIL499 Independent Study: majors are required to complete a Capstone Project, a 25-30 page research paper on a topic of their choice, typically in their Senior year of study. 3sh

A student may use any philosophy course taken to satisfy the general education requirement to satisfy also an appropriate requirement in the philosophy major.

Note: In fulfillment of the Area Requirement, Philosophy majors must take courses in areas (either in Philosophy or in other disciplines) that will contribute to their particular orientation in Philosophy. For example, an interest in "philosophy of science" would suggest that a student take science courses to support that interest.

**Check Sheet for B.A. in Philosophy/
Ethics Track**

I. Required Core Philosophy Courses: 30 semester hours			
100 Level Courses: 6 semester hours		200 Level Courses: 9 semester hours	
PHIL 102 Ethics (also satisfies PHIL gen ed requirement)	3 s.h.	PHIL 201 Classical Philosophy	3 s.h.
PHIL 106 Social and Political Philosophy	3 s.h.	PHIL elective	3 s.h.
		PHIL elective	3 s.h.
300 Level Courses: 9 semester hours		400 Level Courses 6 semester hours	
PHIL 328 Ethics and Globalization or		PHIL 400 Environmental Ethics or	
PHIL 315 Philosophy of Law	3 s.h.	PHIL 415 Health Care Ethics or	
		PHIL 425 Business Ethics	3 s.h.
PHIL 308 Logic	3 s.h.	Independent study: 3 semester hours	
PHIL elective	3 s.h.	PHIL 499 Capstone Project	3 s.h.
II. Area Required Courses - To Be Selected with Advisor: 17 semester hours			
	3 s.h.		3 s.h.
	3 s.h.		3 s.h.
	3 s.h.		2 s.h.
III. General Education Requirements - Required of all students: 52 semester hours			
Art or music or theatre or dance	6 s.h.	Lab Science	3 s.h.
Composition	3 s.h.	Lab Science	3 s.h.
Literature	3 s.h.	Wellness	3 s.h.
Mathematics	3 s.h.	Electives (10 hours)	
Government (pOLI) or Economics	3 s.h.		
Psychology	3 s.h.		
Philosophy	3 s.h.		
Sociology or Anthropology or Geography	3 s.h.		
Speech	3 s.h.		
World History	3 s.h.		
IV. General Education Requirements - Required of Arts and Science students: 21 semester hours			
Foreign Language: 12 semester hours (through the fourth level)		Liberal Arts Seminars: 9 semester hours	
	3 s.h.	Humanities Seminar	3 s.h.
	3 s.h.	Social Science Seminar	3 s.h.
	3 s.h.	Natural Science Seminar	3 s.h.
	3 s.h.		

PHYSICIAN ASSISTANT, MHS (GRADUATE PROGRAM)

Summer Session--Extended		
Course	Title	Hours
PYAS602	Introductory Module	5.00
PYAS610	Infectious Disease Module	2.00
PYAS600	Service Learning Module	1.00
PYAS606	Urology & Sexually Trans Disease	0.50
PYAS608	Human Sexuality Module	0.50
PYAS604	Women's Health Module	1.50
PYAS603	Gross Human Anatomy	4.00
<i>TOTAL HOURS</i>		<i>14.50</i>
Fall		
Course	Title	Hours
PYAS615	Underserved Populations	3.00
PYAS626	Psychiatry Module	2.00
PYAS636	Dermatology Module	1.00
PYAS628	Ophthalmology Module	1.00
PYAS624	Nephrology Module	1.50
PYAS622	Pulmonary Module	2.00
PYAS620	Cardiology Module	3.00
PYAS618	Endocrinology Module	1.50
PYAS614	Hematology Module	1.00
PYAS612	Allergy and Immunology Module	1.00
PYAS630	Neurology Module	2.00
<i>TOTAL HOURS</i>		<i>19.00</i>
Spring		
Course	Title	Hours
PYAS642	Otorhinolaryngology Module	1.00
PYAS616	Oncology Module	1.00
PYAS644	Pediatrics Module	2.00
PYAS646	Geriatrics Module	1.00
PYAS648	Surgery Module	1.50
PYAS650	Emergency Medicine Module	1.50
PYAS652	Alternative Medicine Module	0.50
PYAS654	Occupational Medicine Module	1.00
PYAS634	Rheumatology Module	1.50
PYAS632	Orthopedics Module	1.00
PYAS638	Gastroenterology Module	1.50
PYAS640	Obstetrics Module	1.50
PYAS601	Medical Decisions	3.00
<i>TOTAL HOURS</i>		<i>18.00</i>
Summer Session--Extended		
Course	Title	Hours
PYAS664	Clinical Rotations I	10.00
PYAS661	Evidence Based Medicine I	1.00
<i>TOTAL HOURS</i>		<i>11.00</i>

Fall

Course	Title	Hours
PYAS662	Evidence Based Medicine II	1.00
PYAS665	Clinical Rotations II	15.00
<i>TOTAL HOURS</i>		<i>16.00</i>

Spring

Course	Title	Hours
PYAS663	Evidence Based Medicine III	1.00
PYAS666	Clinical Rotations III	15.00
<i>TOTAL HOURS</i>		<i>16.00</i>

Physics Programs - Course Requirements

Major Courses and Supporting Courses							
Course	sh	B.S. Ed. Sec Ed. Physics	Physics B.S.	BS Physics- Applied Physics Nanotech	BS Physics- Pre-Engineering	A.A.S. Nanotech	
						Phy	Bio
CHEM120-Principles of Chemistry I	4	*	S	*	*	*	*
CHEM121-Principles of Chemistry II	4	*	S		*	*	*
COMP160-Programming I	3		*		*		
MATH113-Precalculus	3						*
MATH211-Linear Methods	3		*	*	*		
MATH141-Calculus I	3	*	*	*	*	*	
MATH142-Calculus II	3	*	*	*	*	*	
MATH243-Calculus III	3	*	*	*	*		
MATH244-Calculus IV	3		*	*	*		
MATH301-Differential Equations	3	*	*	*	*		
PHYS105-Engineering Graphics	3				*		
PHYS130-Physics I	4					*	*
PHYS131-Physics II	4					*	*
PHYS170-Intermediate General Physics I	4	*	*	*	*		
PHYS171-Intermediate General Physics II	4	*	*	*	*		
PHYS250-Heat	3	S	*		*		
PHYS290-Electronics	4	*	S		or 325		
PHYS310-Lab Dev. & Supervision	1	*					
PHYS315-Modern Physics	4	*	*	*	*		
PHYS325-Optics	4	*	S		or 290		
PHYS330-Mechanics	3		*		*		
PHYS331-Mechanics II	3	S	*	*	*		
PHYS345-Math Meth of Physics	2		*		*		
PHYS350-Quantum Mechanics	3	S	*	*	*		
PHYS370-Electricity & Magnetism	3	S	*	*	*		
PHYS371-Electrodynamics	3		*				
PHYS431-Advanced Physics Lab	3		*	*			
PHAP100-Intro to NanoScience	1			*		*	*

PHAP300-Thin Film Science	4			*		*	*
PHAP400-Modern Optoelectronics	4						
PHAP410-Materials Science	4						
PHAP431-Adv Applied Phys Lab	4			*			
Nanofabrication, PSU&LHU	19			*		*	*

NOTES:

- * = Required Course
- S = Suggested Course
- **Secondary Education** – Additional courses in Education are required.
- **B.S.Physics** – Requires an additional 5 sh of 200+ level Physics electives. (PHYS290 or PHYS325)
- **3-2 Engineering**
 - Additional courses are required in some fields.
 - **Chemical engineering-** must take organic chemistry (CHEM220 & CHEM221)
 - **Mining engineering** - must take Principles of Geology and Mineralogy (GEOS130 & GEOS221)
 - **Petroleum and natural gas engineering** - must take Principles of Geology (GEOS130)
 - **Civil Engineering** - Principles of Geology (GEOS130) is strongly recommended
 - **Ceramic, Nuclear, or Petroleum & Natural Gas Engineering** - do not have to take Mechanics II (PHYS331)
- **A.A.S.Nanotechnology** - Additional Requirements (PHY: 3sh specific electives, Bio: BIOL106/107 +4sh specific electives)

General Education					
All four year degree programs must include 52 sh of General Education Courses. This applies to all our majors except for 3-2 Engineering. All programs, including 3-2 Engineering, must take the semester hours of courses shown below.					
I. Wellnes		3 sh	III. Content		
II. Skills	English Composition	3 sh	B. Social Sciences (6sh for AAS))	World History	3 sh
	* Math	3 sh		Poli Sci or Economics	3 sh
	Speech	3 sh		Psychology	3 sh
III. Content				Sociology or Anthropology	3 sh
A. Humanities (3sh for AAS)	Art/Music/Theater***	6 sh	C. Natural Sciences* (4sh for AAS)		6 sh
	Literature	3 sh			
	Philosophy	3 sh			

* Fulfilled with Major and Supporting Courses

**3-2 Engineering Majors should not take Political Science Courses

***We recommend taking 2 courses in either Art, Music, or Theater rather than a mix. This will allow you to meet Penn State's sequence requirements. Course in this category must not be studio classes. Acceptable courses are:

ART: 102, 103, 205, 301, 304, 401

MUSIC: 101, 103, 105, 200, 202, 203, 204, 301, 305, 312, 313, 314, 315, 319, 320

THEATER: 110, 150, 340

Additional Overlay Requirements			
4 yr degree, 3-2 Engineering BS/BS			
Multicultural (MC)	courses 2,1	Writing Emphasis (WE)	courses 3,1
Information Literacy (IL)	courses 2,1	External Experience (EE)	units 2,1

Bachelor of Arts – Political Science

<u>GENERAL EDUCATION REQUIREMENTS</u>			<u>MAJOR REQUIREMENTS***</u>		
Courses	When Taken	Grade	AREA COURSES (12 s.h.) *	When Taken	Grade
Wellness: (3 s.h.)	_____	_____	<u>*At least 2 courses must be at 300+ level</u>		
_____	_____	_____	Economics 101 (Required)	_____	_____
Art/Music/Theatre: (6 s.h.)	_____	_____	History	_____	_____
_____	_____	_____	Economics	_____	_____
_____	_____	_____	Sociology	_____	_____
Literature: (3 s.h.)	_____	_____	Anthropology	_____	_____
_____	_____	_____	Geography	_____	_____
Philosophy: (3 s.h.)	_____	_____	Psychology	_____	_____
_____	_____	_____	Philosophy	_____	_____
Composition: (3 s.h.)	_____	_____	<u>Required courses: (12 s.h.)</u>		
_____	_____	_____	POLI 105: American National Government	_____	_____
Speech: (3 s.h.)	_____	_____	POLI 107: World Politics	_____	_____
_____	_____	_____	POLI 200: Political Inquiry and Action	_____	_____
World History: (3 s.h.)	_____	_____	POLI 301: Comparative Government	_____	_____
_____	_____	_____	<u>Elective Courses: (23 s.h.) **</u>		
Political Science or Economics: (3 s.h.)	_____	_____	**At least one course from each of the first 4 groups A, B, C, D. At least 4 of the elective		
Econ 101 (required)	_____	_____	courses must be at the 300 level or above.		
_____	_____	_____	<u>GROUP A: American National Government & Politics</u>		
Psychology: (3 s.h.)	_____	_____	POLI 210: State and Local Government		
_____	_____	_____	POLI 230: Political Parties & Elections		
Sociology or Anthropology: (3 s.h.)	_____	_____	POLI 305: Congress and the Presidency		
_____	_____	_____	POLI 312: Media and Politics		
Natural Sciences: (6 s.h.)	_____	_____	<u>GROUP B: Public Policy & Administration</u>		
_____	_____	_____	POLI 260: Public Administration		
_____	_____	_____	POLI 330: Public Policy		
Mathematics: (3 s.h.)	_____	_____	POLI 365: Organization theory & Practice		
_____	_____	_____	<u>GROUP C: Comparative & International Politics</u>		
328 Liberal Arts Seminars: (9s.h.)	_____	_____	POLI 250: United States Foreign Policy		
Science, Social Science, Humanities	_____	_____	POLI 315: Politics in Developing Nations		
_____	_____	_____	POLI 320: Latin American Politics		
_____	_____	_____	POLI 350: International Relations		
Language up through Level IV:	_____	_____	POLI 370: United Nations & International Organizations		
_____	_____	_____	<u>GROUP D: Theory, Law and Methods</u>		
Electives: (10 s.h.)	_____	_____	POLI 380: Constitutional Law		
_____	_____	_____	POLI 381: Law and Society		
_____	_____	_____	POLI 390: Political Theory I		
_____	_____	_____	POLI 391: Political Theory II		
_____	_____	_____	POLI 400: Junior/Senior Research Seminar		
			<u>GROUP E: Other Political Science</u>		
			POLI 101: Political Science		
			POLI 310: Criminal Justice		
			POLI 325: Labor Management Relations		
			POLI xxx: Independent Study, Special Topics or Internship		
			*** Individual courses in the program may be credited to meet appropriate General		
			Education requirements.		

**Bachelor of Arts – Political Science
Pre law**

<u>GENERAL EDUCATION REQUIREMENTS</u>			<u>MAJOR REQUIREMENTS***</u>		
Courses	When Taken	Grade	<u>Area Courses</u> (12 s.h.) *	When Taken	Grade
Wellness: (3 s.h.)	_____	_____	ACCT 110: Financial Accounting	_____	_____
Art/Music/Theatre: (6 s.h.)	_____	_____	SPCH 303: Argument & Debate OR	_____	_____
Literature: (3 s.h.)	_____	_____	SPCH 375: Persuasion OR	_____	_____
Philosophy 102 required: (3 s.h.)	_____	_____	ENG 315: Composition Usage OR	_____	_____
Composition: (3 s.h.)	_____	_____	ENG 360: Technical Writing	_____	_____
Speech: (3s.h.)	_____	_____	PHIL 308: Logic	_____	_____
World History: (3s.h.)	_____	_____	<u>Required courses:</u> (12 s.h.)		
Political Science or Economics: (3s.h.)	_____	_____	POLI 105: American National Government	_____	_____
Econ 101 (required)	_____	_____	POLI 107: World Politics	_____	_____
Psychology: (3 s.h.)	_____	_____	POLI 200: Political Inquiry and Action	_____	_____
Sociology or Anthropology: (3s.h.)	_____	_____	POLI 301: Comparative Government	_____	_____
Natural Sciences: (6s.h.)	_____	_____	<u>Elective Courses:</u> (23 s.h.)		
Mathematics: (3s.h.)	_____	_____	Pre Law Requirements****		
328 Liberal Arts Seminars: (9s.h.)	_____	_____	At least one course from each of the first 4 groups A, B, C, D. At least 4 of the elective		
Science, Social Science, Humanities	_____	_____	courses must be at the 300 level or above.		
Language Proficiency through Level IV	_____	_____	<u>GROUP A: American National Government & Politics</u>		
Electives (10 s.h.)	_____	_____	POLI 210: State and Local Government		
	_____	_____	POLI 230: Political Parties & Elections		
	_____	_____	POLI 305: Congress and the Presidency		
	_____	_____	POLI 312: Media and Politics		
	_____	_____	<u>GROUP B: Public Policy & Administration</u>		
	_____	_____	POLI 260: Public Administration		
	_____	_____	POLI 330: Public Policy		
	_____	_____	POLI 365: Organization theory & Practice		
	_____	_____	<u>GROUP C: Comparative & International Politics</u>		
	_____	_____	POLI 250: United States Foreign Policy		
	_____	_____	POLI 315: Politics in Developing Nations		
	_____	_____	POLI 320: Latin American Politics		
	_____	_____	POLI 350: International Relations		
	_____	_____	POLI 370: United Nations & International Organizations		
	_____	_____	<u>GROUP D: Theory, Law and Methods</u>		
	_____	_____	POLI 380: Constitutional Law		
	_____	_____	POLI 381: Law and Society		
	_____	_____	POLI 390: Political Theory I		
	_____	_____	POLI 391: Political Theory II		
	_____	_____	POLI 400: Junior/Senior Research Seminar		
	_____	_____	<u>GROUP E: Other Political Science</u>		
	_____	_____	POLI 101: Political Science		
	_____	_____	POLI 310: Criminal Justice		
	_____	_____	POLI 325: Labor Management Relations		
	_____	_____	POLI xxx: Independent Study, Special Topics or Internship		
	_____	_____	*** Individual courses in the program may be credited to meet appropriate general		
	_____	_____	education requirements.		

Date revised March 11, 2009

**PreK- 4 / EARLY CHILDHOOD EDUCATION REQUIREMENTS
LOCK HAVEN UNIVERSITY OF PENNSYLVANIA**

Name: _____ Advisor: _____

**Required Total Number of Credit Hours for Graduation = 120
GENERAL EDUCATION: REQUIRED (TOTAL = 42 S.H.)**

CURRICULUM AREA	COURSE NUMBER/ COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
Composition		C-		3 s.h.
Philosophy				3 s.h.
Speech		C-		3 s.h.
Literature		C-		3 s.h.
Art/Music/Theater				3 s.h.
Art/Music/Theater				3 sh.
Lab Science		C-		3 s.h.
Lab Science		C-		3 s.h.
Mathematics	MATH 102	C		3 s.h.
Psychology	PSYCH 111	C		3 s.h.
Sociology/Anthropology				3 s.h.
World History		C-		3 s.h.
Govt./Econ./Pol.Sci.				3 s.h.
Wellness	HLTH 245			3 s.h.

PROFESSIONAL EDUCATION (TOTAL = 20 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
EDTF 101 Social Foundations of Education	C		2 s.h.
PSYC 201 Educational Psychology	C		3 s.h.
SPEC 204 Cognitive Development of Diverse Learners	C		3 s.h.
MATH 215 Statistics and Geometry	C		3 s.h.
READ 204 Developmental Reading	C		3 s.h.
SPEC 309 Effective Instructional Strategies	C		3 s.h.
SPEC 345 Literacy Instruction for Students w/Disabilities	C		3 s.h.

REQUIRED EARLY CHILDHOOD EDUCATION (TOTAL = 31 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
ECED 119 First Year Seminar	CR		1 s.h.
ECED 100 Introduction to Early Childhood Education	C	WE, MC	3 s.h.
ECED 150 Diversity in Develop of Infants/Toddlers/Young Children	C		3 s.h.
ECED 200 Observing & Assessing Young Children	C		3 s.h.
ECED 212 Language Development	C	WE	3 s.h.
ECED 225 Beginning Literacy	C		3 s.h.
ECED 230 Professional Communication & Family Collaboration	C		3 sh.
ECED 220 Emerging Mathematics	C		3 s.h.
ECED 332 Developing Creative Expression	C	WE, IL	3 s.h.
ECED 331 Planning & Administering EC Programs	C		3 s.h.
ECED 325 Assessment & Evaluation in Early Childhood Education	C		3. s.h.

Date revised March 11, 2009

EARLY CHILDHOOD EDUCATION PROFESSIONAL SEMESTER (Total 15 S.H.)			
COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
ECED 431 Science for Young Children	C	EE	3 s.h.
ECED 432 Language Arts & Reading for Early Childhood	C	EE	3 s.h.
ECED 433 Math Methods for Early Childhood	C	EE	3 s.h.
ECED 436 Social Studies for Young Children	C	EE, IL	3 s.h.
ECED 4xx Integrating Curriculum & Instruction	C		3 s.h.

Student Teaching (Total 12 S.H.)			
ECED 493 Student Teaching and Practicum	C	EE, WE, IL	6 s.h.
ECED 494 Student Teaching and Practicum	C	EE, WE, IL	6 s.h.

General Education: Electives			
Curriculum Area	Course Number/Course Name	Overlays	Semester Hours

ADDITIONAL CERTIFICATION	MINOR

ADVISEMENT NOTES
<p>Three clearances are required every year, and must be obtained before beginning observation hours.</p> <p>TB tests are required every two years.</p> <p>Overall GPA required to achieve Advanced Standing: 3.0</p> <p>Begin taking PPST exams during Freshman year.</p> <p>Overlays required: 2 Information Literacy 3 Writing Emphasis 2 Multicultural 2 External Experience</p>

**ECE PreK-4 /SPECIAL EDUCATION DUAL CERTIFICATION
MAJOR REQUIREMENTS
LOCK HAVEN UNIVERSITY OF PENNSYLVANIA**

Name: _____

Advisor: _____

Required Total Number of Credit Hours for Graduation = 126

GENERAL EDUCATION: REQUIRED (TOTAL = 42 S.H.)

CURRICULUM AREA	COURSE NUMBER/ COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
Composition		C-		3 s.h.
Philosophy				3 s.h.
Speech		C-		3 s.h.
Literature		C-		3 s.h.
Art/Music/Theater				3 s.h.
Art/Music/Theater				3 sh.
Lab Science		C-		3 s.h.
Lab Science		C-		3 s.h.
Mathematics	MATH 102	C		3 s.h.
Psychology	PSYCH 111	C		3 s.h.
Sociology/Anthropology				3 s.h.
World History		C-		3 s.h.
Govt./Econ./Pol.Sci.				3 s.h.
Wellness	HPED 245			3 s.h.

PROFESSIONAL EDUCATION (TOTAL = 8 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
EDTF 101 Social Foundations of Education	C		2 s.h.
MATH 215 Statistics and Geometry	C		3 s.h.
SPEC 202 Cultural and Linguistic Diversity	C		3 s.h.

REQUIRED EARLY CHILDHOOD EDUCATION (TOTAL = 22 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
ECED 119 First Year Seminar	CR		1 s.h.
ECED 100 Introduction to Early Childhood Education	C	WE, MC	3 s.h.
ECED 2XX Beginning Literacy	C		3 s.h.
ECED 230 Professional Communication and Family Collaboration	C		3 sh.
ECED 220 Emerging Mathematics	C	WE, IL	3 s.h.
ECED 212 Language Development	C	WE	3 s.h.
ECED 332 Developing Creative Expression	C		3 s.h.
ECED 331 Planning & Administering EC Programs	C		3 s.h.

EARLY CHILDHOOD EDUCATION PROFESSIONAL SEMESTER (Total 15 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
ECED 431 Science for Young Children	C	EE	3 s.h.
ECED 432 Language Arts & Reading for Young Children	C	EE	3 s.h.
ECED 433 Math for Early Childhood	C	EE	3 s.h.
ECED 436 Social Studies for Young Children	C	EE, IL	3 s.h.
ECED 4xx Integrating Curriculum & Instruction	C		3 s.h.

REQUIRED SPECIAL EDUCATION (Total 18 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
SPEC 105 Foundations of Special Education	C		3 s.h.
SPEC 215 High Incidence Disabilities Support	C		3 s.h.
SPEC 212 Low Incidence Disabilities Support	C		3 s.h.
SPEC338 Positive Behavior Support	C		3 s.h.
SPEC 300 Communication Disorders and Assistive Technology	C		3 s.h.
SPEC 345 Literacy Skills for Students with Disabilities	C		3 s.h.

SPECIAL EDUCATION PROFESSIONAL SEMESTER (Total 12 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
SPEC 430 Assessing Educational Needs and Planning for Instruction	C		3 s.h.
SPEC 440 Strategies for Teaching Students with Low Incidence Disabilities	C		3 s.h.
SPEC 441 Strategies for Teaching Students with High Incidence Disabilities	C		3 s.h.
SPEC 425 Law and Collaborative Practices	C	WE	3 s.h.

Student Teaching (Total 12 S.H.)

ECED 493/494 Student Teaching and Practicum (Early Childhood)	C	EE, WE, IL	6 s.h.
SPEC 493/494 Student Teaching and Practicum (Special Education)	C	EE, WE, IL	6 s.h.

ADDITIONAL COURSEWORK (OPTIONAL) OR MINOR

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	SEMESTER HOURS

ADVISEMENT NOTES

Clearances are required every year, and must be obtained before beginning observation hours.
 TB tests are required every two years.
 Overall GPA required to achieve Advanced Standing: 3.0
 Begin taking PPST exams during Freshman year.
 Overlays required: 2 Information Literacy
 3 Writing Emphasis
 2 Multicultural
 2 External Experience

LHU REQUIREMENTS FOR A B.A. IN PSYCHOLOGY (revised 07/2011)

Name _____ *Read the general instructions found on the back page.*

GENERAL EDUCATION REQUIREMENTS (81 s.h.)

A list of courses that officially fulfill the general education requirements can be found at:
www.lhup.edu/academic/acad_affairs/general_education_course_list.htm

Subject (must be...)	Total s.h.	Course Name	s.h.	Sem/Year
Art, Music and/or Theatre/Dance Any combination (e.g., two Art classes)	6 s.h.			
Composition (ENGL100) Does not count toward fulfilling WE requirement.	3 s.h.			
Literature	3 s.h.			
Philosophy	3 s.h.			
Speech (Comm100, 102, 103, or 104)	3 s.h.			
World History (HIST101 or 102)	3 s.h.			
Government or Economics	3 s.h.			
Psychology (PSYC100)	3 s.h.			
Sociology/Anthropology/Geography	3 s.h.			
Math (Math107) prerequisite of a score of 9 or greater on categories 1 & 2 of Math Placement exam; Need at least C minus before you may take PSYC205	3 s.h.			
Laboratory Science (3 s.h. must be BIOL101 or 106). Can't be both BIOL101 and 106.	6 s.h.			
Wellness	3 s.h.			
Humanities Seminar completed 60 s.h.	3 s.h.			
Science Seminar completed 60 s.h.	3 s.h.			
Social Science Seminar completed 60 s.h.	3 s.h.			
Foreign Language Must complete level four of an individual language. Any remaining hours of the 12 s.h. after completion become free electives.	12 s.h.			
Free Electives Take 18 s.h. of any course. They could be from psychology but do not have to be. These are the only courses that can be taken P/F. Often these credits are used to help fulfill a minor. (Technically, 10 s.h. are free electives common to all B.A. degrees and 8 s.h. are free electives from the major)	18 s.h.			

GENERAL EDUCATION OVERLAYS

- Students must complete courses with the special designations of writing emphasis, information literacy, multicultural, and external experience.
- Specially designated courses may also meet other general education requirements, major requirements, or may be free electives. For example, students completing a 6 s.h. psychology internship meets the requirement for 2 units of external experience.
- Student taking courses with more than one designation (e.g., WE and IL), may count all the designations towards fulfilling these requirements. For example, PSYC204, Writing for Psychology would count as a WE and as an IL course.

		Course Name	s.h.	Sem/Year
Writing Emphasis (WE) Must take three WE courses beyond ENGL100.	9 s.h.	PSYC409 Applying Research Methods...	3	
Information Literacy (IL)	6 s.h.	PSYC202 Research Methods in Psychology	3	
		PSYC409 Applying Research Methods...	3	
Multicultural (MC) Completing any 6 s.h. of a foreign language will fulfill this requirement.	6 s.h.			
External Experience (EE)	2 units			

Who must fulfill these requirements?

- Students who enrolled before Summer 1999 are not required to fulfill overlay requirements.
- Students who enrolled at LHU beginning Summer 1999 through Spring 2000 must meet WE, MC and EE overlays. Do not have to meet IL requirements.
- Students who enrolled at LHU beginning Summer 2000 and after must meet all overlays, WE, MC, EE, and IL

PSYCHOLOGY CORE REQUIREMENTS (12 s.h.)

You must take ALL of the following courses in psychology. Obtaining a minimum grade of a C minus in all of the prerequisite courses, except for PSYC215, is required prior to taking a course.

Sugg.Sem.	Course #	Course name (prerequisites)	s.h.	Sem/Year
1-2	PSYC100	Introduction to Psychological Science (none)	3	
2-4	PSYC215	Brain and Behavior (PSYC100)	3	
3	PSYC202	Research Methods in Psychology (IL) (PSYC100, need C minus)	3	
4	PSYC205	Applied Psych Statistics (PSYC202, MATH107, need C minus in both)	3	
5	PSYC409	Applying Research Methods in Psychology (IL, WE) (PSYC202, MATH 107, PSYC205, need C minus in all. Minimum grade of C minus required in PSYC409. Meets WE requirement.)	3	

Note: PSYC100 counts toward G.E. requirements, hence the total of only 12 s.h. **Boxed area = Three course sequence**

SUPPLEMENTAL PSYCHOLOGY CORE REQUIREMENTS (12 s.h.)

You must take at least ONE course from EACH of the following four foundation areas. A second course taken in a foundation area can count towards your "Track Electives" if it is on the list or it may count towards "Other Electives" in psychology, or it may count towards "Free Electives" in general education.

Developmental Processes (choose one course from this group)

Sugg. Sem.	Course #	Course name (prerequisites)	s.h.	
2-4	PSYC102	Child Development (none)	3	
2-4	PSYC103	Adolescent Development (none)	3	
2-5	PSYC240	Life-Span Development (PSYC100)	3	Sem/Year
Your choice:				

Social Processes (choose one course from this group)

Sugg Sem.	Course #	Course name (prerequisites)	s.h.	
3-6	PSYC235	Interpersonal and Leadership Skills (WE, EE) (3 s.h. psychology, PSYC100 highly recommended)	3	
2-4	PSYC250	Social Psychology (PSYC100)	3	Sem/Year
Your choice:				

Cognitive Processes (choose one course from this group)

Sugg Sem.	Course #	Course name (prerequisites)	s.h.	
4-7	PSYC305	Theories of Learning (PSYC100)	3	
4-7	PSYC310	Cognitive (PSYC100, 202 + BIOL101 or 106)	3	Sem/Year
Your choice:				

Individual Processes (choose one course from this group)

Sugg Sem.	Course #	Course name (prerequisites)	s.h.	
4-6	PSYC307	Abnormal Psychology (PSYC100 + 3 s.h. of psych)	3	
3-6	PSYC308	Psychology of Personality (PSYC100 + 3 s.h. of psych)	3	Sem/Year
Your choice:				

PSYCHOLOGY TRACK ELECTIVES (9 s.h.)

You must choose ONE of the following tracks from which to select an additional 9 s.h. of psychology electives. Any of the courses used to satisfy the Supplemental Psychology Core Requirements may not be used to fulfill the requirements below. Hence, any course can only count towards one of the requirements and not both. It may be helpful to scratch out any course listed below that you have taken to satisfy the Supplemental Psychology Core Requirements.

Choose the:

 Clinical and School Counseling Track

Sugg Sem.	Course #	Course name (prerequisites)	s.h.	
3-6	PSYC308	Psychology of Personality (PSYC100 + 3 s.h. of psych)	3	
5-8	PSYC450	Psychotherapies (PSYC307 + 308)	3	
5-8	PSYC470	Counseling Skills (PSYC450 + 307 + 308)	3	
4-6	PSYC307	Abnormal Psychology (PSYC100 + 3 s.h. of psych)	3	
5-8	PSYC322	Drugs & Human Behavior (PSYC100 + BIOL101, 106, or HLTH251)	3	
5-8	PSYC315	Health Psychology (PSYC100 + PSYC215, 410, or HLTH251)	3	
5-8	PSYC421	Psychological Assessment (PSYC202 + 307 + 308)	3	
4-7	PSYC305	Theories of Learning (PSYC100)	3	
5-8	PSYC412	Human Neuropsychology (C minus in PSYC215 or 410,+ 307)	3	Sem/Year
Your choices:				

Boxed area = Most common set, combined with PSYC307 fulfilling the "Individual Processes" supplemental core on previous page.

Or choose the:

 Experimental and Physiological Track

Sugg Sem.	Course #	Course name (prerequisites)	s.h.	
2-5	PSYC250	Social Psychology (WE) (PSYC100)	3	
4-7	PSYC305	Theories of Learning (PSYC100)	3	
4-7	PSYC306	History and Systems (PSYC100)	3	
4-7	PSYC310	Cognitive Psychology (PSYC100 + 202 + BIOL101 or 106)	3	
5-8	PSYC315	Health Psychology (PSYC100 + PSYC215, 410, or HLTH1--)	3	
5-8	PSYC322	Drugs & Human Behavior (PSYC100 + BIOL101,106, or HLTH1--)	3	
5-8	PSYC410	Physiological Psychology (PSYC100 + BIOL101 or 106)	3	
5-8	PSYC412	Human Neuropsychology (C minus in PSYC215 or 410,+ 307)	3	
5-8	PSYC445	Neuroscience Laboratory (permission)	1	Sem/Year
Your choices:				

OTHER PSYCHOLOGY ELECTIVES—Any psych course, not just those below (6 s.h.)

You may choose ANY psychology course to fulfill the remaining 6 s.h. Thus, you may select any course listed before or below that does not already fulfill one of the preceding requirements. However, students in the Clinical and School Counseling Track are highly encouraged to do an Internship (PSYC369) and students in the Experimental and Physiological Track are encouraged to do an Independent Study (PSYC499). Below are additional psychology courses that you may choose that are not listed before.

Sugg Sem.	Course #	Course name (prerequisites)	s.h.
4-6	PSYC111	Psychology of Early Childhood	3
4-7	PSYC201	Educational Psychology (PSYC102 or 103)	3
2-6	PSYC204	Writing for Psychology (WE) (PSYC100 and ENGL100. Meets WE and IL requirement)	3
2-5	PSYC212	Forensic Psychology (PSYC100)	3
3-6	PSYC300	Primateology (BIOL101 or BIOL106 and at least one of the following PSYC100 or PSYC102 or SOCI101 or ANTH101)	3
3-6	PSYC306	History and Systems of Psychology (PSYC100)	3
4-6	PSYC313	Industrial and Organizational Psychology (PSYC100)	3
5-8	PSYC328	Social Science Seminar (60 s.h. completed)	3
5-8	PSYC369	Internship (need faculty sponsor; a minimum 2.5 GPA overall and in major, and 60 s.h. completed. Meets 2 unit EE requirement)	6
5-8	PSYC400	Advanced Topics Seminar (IL) (18 s.h. of psychology including PSYC100 and PSYC202)	3
5-8	PSYC402	Sensation and Perception (PSYC100, 202, and 215)	3
4-7	PSYC425	Psychology of Women (PSYC100 + 3s.h. of psych)	3
5-8	PSYC440	Adult Development and Aging (9 s.h. psychology including PSYC100 and either PSYC102, 103 or 240)	3
4-8	PSYC159-459	Special Topics in Psychology	3
5-8	PSYC499	Independent Study (need faculty sponsor; 60 s.h. completed, plus a minimum 2.5 GPA; usually taken for 3 s.h.)	2-4

Boxed area = Courses in this list most useful for professional training beyond the B.A. in Psychology

List below the courses that satisfy the 6 s.h. of other psychology electives.

	Course #	Course name	s.h.	Sem/Year
Your choices:				

If you take more than 6.sh. of psychology free electives, list any s.h. beyond the required six on page one under general education free electives.

GENERAL INSTRUCTIONS

The requirements for a Bachelor of Arts in Psychology can be divided into six parts:

General Education Requirements	81 s.h.
Psychology Core Requirements	12 s.h.
Supplemental Psychology Core Requirements	12 s.h.
Psychology Track Electives	9 s.h.
Other Psychology Electives...	6 s.h.
TOTAL	120 s.h.

General Education Requirement

The total of 81 s.h. includes the foreign language and liberal arts seminar requirements for all Bachelor of Arts degrees. The foreign language requirement is not necessarily 12 s.h. of a foreign language. Instead, a student must demonstrate a proficiency at the fourth level of an individual language. Hence, a student who begins at level three in a language would only have to complete that level to meet the requirement. The remaining 6 s.h. would be added to the student's general education free electives.

A special requirement of all psychology majors is the requirement of either Basic Biology (BIOL101) or Principles of Biology (BIOL106). Although not required, we recommend that majors take the combination of Principles of Biology I (BIOL106) and Principles of Biology II (BIOL107). This would complete both the requirement in biology and the other laboratory science requirement. A student may NOT, however, use a combination of BIOL101 and BIOL106 (or BIOL 107) to fulfill the general education lab science requirements.

Concerning the math requirement, we recommend that students as soon as possible determine their math proficiency by taking the math placement test offered by the math department (call Professor Carol Rehn at 893-2091). Majors will eventually need to take Basic Statistics (MATH107) in preparation for the required Applied Psychological Statistics (PSYC205). A minimum of a C minus in MATH107 is required before enrolling in PSYC205. Thus, you need to plan to have successfully completed MATH 107 prior to PSYC205. Many of you will be able to immediately enter MATH107 because of previous mathematical training if you achieve a score of 9 or greater on categories 1 and 2 of the math placement exam. However, some students will need to take other math courses first in preparation. The course that would be most appropriate will be determined by your performance on the math placement test.

Psychology Core Requirements

These courses are considered essential for all psychology majors. PSYC202, 205, and 409 should be conceived as a three course sequence. Before starting the sequence, make sure that you will have completed MATH107 by the time you begin PSYC205. Also, students declaring psychology as a major after 3/1/95 must receive a C minus grade or better in each of the following courses: PSYC100, 202, 205, 409. Furthermore, you must have a C minus grade or better in the prerequisite courses for PSYC202, 205, and 409 prior to registering for the course. For instance, before registering in PSYC205, you must have earned a minimum grade of C minus in PSYC202 and MATH107.

Am I clear to graduate?

Completing all of the requirements outlined on the preceding pages should leave you with a minimum of 42 s.h. of psychology (that includes PSYC100 which technically is counted towards your general education requirement). Any hours in psychology above 42 s.h. are applied to the 18 s.h. free elective requirement of general education.

LHU REQUIREMENTS FOR A B.S. IN PSYCHOLOGY

(Last revised July 2011)

Name _____

Psychology B.S. Pathway _____

GENERAL EDUCATION REQUIREMENTS (54 s.h.) (See last page of this document for information on Gen. Ed.)

A list of courses that officially fulfill the general education requirements can be found at:

www.lhup.edu/academic/acad_affairs/general_education_course_list.htm

Subject	s.h.	Course Name	s.h.	Sem/Year
Art, Music, Theatre, Dance Any combination (e.g., two Art classes)	6 s.h.			
Composition (ENGL100). Does not count toward fulfilling WE requirement.	3 s.h.			
Literature	3 s.h.			
Philosophy	3 s.h.			
Speech (COMM102 or 104 Required)	3 s.h.			
World History	3 s.h.			
Government or Economics	3 s.h.			
Psychology (PSYC100)	3 s.h.			
Sociology, Anthropology or Geography	3 s.h.			
Math (MATH107) prerequisite of a score of 9 or greater on categories 1 & 2 of Math Placement exam; Need at least C minus before you may take PSYC205	3 s.h.			
Biology (BIOL101 or 106 Required)	3 s.h.			
Laboratory Science	3 s.h.			
Wellness	3 s.h.			
Electives Take 12 s.h. of any courses. They could be from psychology but do not have to be. Often these credits are used to help fulfill a minor or bolster your psychology pathway.	12 s.h.			

PSYCHOLOGY SPECIFIC GEN. ED. ENHANCEMENTS (15 s.h. total)

Subject	s.h.	Course Name	s.h.	Sem/Year
Computer Skill Enhancement	6 s.h.	CISC150: Intro. to Computers (Required)		
		CISC250: Adv. Microcomputer Applic. (Required)		
Speech Enhancement (Choose one)	3 s.h.	COMM102: Fundamentals of Public Speaking or COMM104: Interpersonal Communications		
Social Science Enhancement (any 6 s.h. in SOCI, SOCW, ANTH, CRJS)	6 s.h.			

Previously required 3rd lab science has been removed; if student has already completed 3 lab sciences, they may meet the degree requirements using 3 lab sciences. Students who have not completed a 3rd lab science should take a Biopsychological Processes course (PSYC410 or 412).

GENERAL EDUCATION OVERLAYS

- Students must complete courses with the special designations of writing emphasis (WE), information literacy (IL), multicultural (MC), and external experience (EE).
- Specially designated courses may also meet other general education requirements, major requirements, or may be free electives.
- Student taking courses with more than one designation (e.g., WE and IL), may count all the designations toward fulfilling these requirements. For example, PSYC204, Writing for Psychology would count as a WE and as an IL course.

		Course Name	s.h.	Sem/Year
Writing Emphasis (WE): Must take three WE courses <u>beyond</u> ENGL100.	9 s.h.	PSYC204 Writing for Psychology	3	
		PSYC409 Applying Research Methods in Psychology	3	
		PSYC499 Independent Study	2-4	
Information Literacy (IL)	6 s.h.	PSYC202 Research Methods in Psychology	3	
		PSYC409 Applying Research Methods in Psychology	3	
Multicultural (MC) (e.g., HIST, foreign language courses)	6 s.h.			
External Experience (EE) (e.g. PSYC369, PSYC235)	2 units			

PSYCHOLOGY CORE REQUIREMENTS (20-22 s.h. total)

You must take ALL of the following courses in psychology. Obtaining a minimum grade of a B minus in all of the courses listed below to take the next course in the sequence and to graduate with a B.S. in Psychology.

Sugg Sem.	Course #	Course name (overlay) (prerequisites)	s.h.	Sem/Year
1-2	PSYC100	Introduction to Psychological Science (no prereq ; B- min.)	-	
3	PSYC202	Research Methods in Psychology (IL) (PSYC100; B- min.)	3	
2-3	PSYC204	Writing for Psychology (IL, WE) (PSYC100, ENGL100; B- min.)	3	
4-5	PSYC205	Applied Psych Statistics (PSYC202, MATH107; B- min.)	3	
2-4	PSYC215	Brain and Behavior (PSYC 100; B- min.)	3	
2-4	PSYC250	Social Psychology (PSYC100; B- min.)	3	
5-7	PSYC409	Applying Research Methods in Psychology (IL, WE) (PSYC202, MATH 107, PSYC205, B- min. in all.)	3	
5-8	PSYC499	Independent Study (60 s.h. ; minimum 2.50 GPA) (B- min.)	2-4	

Note: PSYC100 counts toward G.E. requirements, hence the total of 20-22 s.h.

PSYCHOLOGY SUPPLEMENTAL CORE REQUIREMENTS (12 s.h.)

You must take at least ONE course from EACH of the following four foundation areas. Additional courses taken in a foundation area can count toward your "Psych. Electives" or toward "Electives" in general education.

Developmental Processes (choose one course from this group)

Sugg Sem.	Course #	Course name (prerequisites; min. grade required)	s.h.	Sem/Year
2-4	PSYC102	Child Development (none; C+ min.)	3	
2-4	PSYC103	Adolescent Development (none; C+ min.)	3	
2-5	PSYC240	Life-Span Development (PSYC100; C+ min.)	3	
Your choice:				

Cognitive Processes (choose one course from this group)

Sugg Sem.	Course #	Course name (prerequisites; min. grade required)	s.h.	
4-7	PSYC305	Theories of Learning (PSYC100; C+ min.)	3	Sem/Year
4-7	PSYC310	Cognitive Psychology (BIOL 101 or 106, PSYC100, PSYC202; C+ min.)	3	
Your choice:				

Individual Processes (choose one course from this group)

Sugg Sem.	Course #	Course name (prerequisites; min. grade required)	s.h.	
4-6	PSYC307	Abnormal Psychology (PSYC100 + 3 s.h. of psych; C+ min.)	3	Sem/Year
3-6	PSYC308	Psychology of Personality (PSYC100 + 3 s.h. of psych; C+ min.)	3	
Your choice:				

Biopsychological Processes (choose one course from this group)

Sugg Sem.	Course #	Course name (prerequisites; min. grade required)	s.h.	
5-8	PSYC402	Sensation and Perception (PSYC100 + PSYC202 + PSYC215)	3	Sem/Year
5-8	PSYC410	Physiological Psychology (PSYC100 + PSYC215 + BIOL101 or 106; C+ min)	3	
5-8	PSYC412	Human Neuropsychology (C- in PSYC215 or 410, + PSYC307; C+ min)	3	
Your choice:				

PSYCHOLOGY ELECTIVES (17-19 s.h. total*) (C+ min. for all)

You may choose ANY psychology courses to fulfill this 17-19 s.h. Thus, you may select any courses previously listed or on the following page that do not already fulfill the preceding requirements. These courses should be consistent with your specified psychology pathway of interest (e.g., Counseling/Clinical Psychology, Social Psychology, Pre- Physician Assistant, Forensic Psychology, Neuropsychology, Developmental Psychology)

Course #	Course name (prerequisites)	s.h.	Sem/Year
PSYC			
PSYC			
PSYC			
PSYC			
PSYC			
PSYC			

Students interested in pursuing graduate study in Counseling/Clinical Psychology are strongly encouraged to complete the following sequence of courses as part of their PSYC electives: PSYC307, PSYC308, PSYC450, PSYC470, & PSYC369)

*Number of PSYC Electives (17-19 s.h.) depends on how many s.h. of Independent Study (IS) you complete. 2 sh. of IS would require 19 s.h. of PSYC Electives; 3 s.h. of IS would require 18 sh of PSYC Electives; 4 s.h. of IS would require 17 s.h. of PSYC Electives.

***Additional Psychology Courses from which you may choose to fulfill the 17-19 s.h. of psychology electives (fill in boxes on previous page).**

Sugg Sem.	Course #	Course name (prerequisites)	s.h.
4-6	PSYC111	Psychology of Early Childhood (Should not take 102 and 111)	3
4-7	PSYC201	Educational Psychology (PSYC102 or 103)	3
3-5	PSYC212	Forensic Psychology (PSYC100)	3
3-6	PSYC235	Interpersonal and Leadership Skills (3 s.h. of PSYC)	3
5-8	PSYC300	Primatology (BIOL101 or 106 and at least one of the following: PSYC100, 102, SOCI101, ANTH101)	3
3-6	PSYC306	History and Systems of Psychology (PSYC100)	3
4-6	PSYC313	Industrial and Organizational Psychology (PSYC100)	3
5-8	PSYC315	Health Psychology (PSYC100 & one of the following: PSYC215, 410, or HLTH251)	3
5-8	PSYC322	Drugs and Human Behavior (PSYC100 & one of the following: BIOL101 or 106, or HLTH251)	3
5-8	PSYC328	Social Science Seminar (60 s.h. completed)	3
5-8	PSYC369	Internship (need faculty sponsor; a minimum 2.5 GPA overall and in major, and 60 s.h. completed. Meets 2 unit EE requirement)	6
5-8	PSYC400	Advanced Topics Seminar (IL) (18 s.h. of psychology including PSYC100 and PSYC202)	3
5-8	PSYC402	Sensation and Perception (PSYC100, 202, and 215)	3
5-8	PSYC421	Psychological Assessment (PSYC202, 307, & 308)	3
4-7	PSYC425	Psychology of Women (PSYC100 + 3s.h. of psych)	3
5-8	PSYC440	Adult Development and Aging (9 s.h. psychology including PSYC100 and either PSYC102 ,103 or 240)	3
5-8	PSYC445	Neuroscience Laboratory (Permission of instructor)	1
5-8	PSYC450	Psychotherapies (PSYC307 & PSYC308)	3
5-8	PSYC470	Counseling Skills (PSYC307, 308, & 450)	3
4-8	PSYC159-459	Special Topics in Psychology	3

SUMMARY OF B.S. in PSYCHOLOGY REQUIREMENTS

General Education Requirements.....	54 s.h.
Psychology Specific Gen. Ed. Enhancements.....	15 s.h.
Psychology Core Requirements	20-22 s.h.
Psychology Supplemental Core Requirements	12 s.h.
Psychology Electives.....	17-19 s.h.
TOTAL	120 s.h.

General Education Requirement of the B.S. in Psychology (54 s.h.)

- The B.S. General Education requirements do not include any foreign language or liberal arts seminar as in the Bachelor of Arts degrees.
- Concerning the math requirement, we recommend that students determine as soon as possible their math proficiency by taking the math placement test offered by the math department (call Professor Carol Rehn at 893-2091). All Psychology majors need to take Basic Statistics (MATH107) in preparation for the required Applied Psychological Statistics (PSYC205). A minimum of a C minus in MATH107 is required for B.S. Psychology majors before enrolling in PSYC205. Thus, you must successfully complete MATH 107 prior to PSYC205. You may be able to immediately enter MATH107 because of previous mathematical training. However, some students need to take other math courses first in preparation. The course that would be most appropriate will be determined by your performance on the math placement test.
- A special requirement of all psychology majors is the requirement of either Basic Biology (BIOL101) or Principles of Biology (BIOL106). Although not required, we recommend that majors take the combination of Principles of Biology I (BIOL106) and Principles of Biology II (BIOL107). This would complete both the requirement in biology and a second required laboratory science course. A student may NOT, however, use a combination of BIOL101 and BIOL106 (or BIOL 107) to fulfill the general education lab science requirements. The B.S. degree also required the completion of a third lab science course (listed under "Psych Specific Gen. Ed. Enhancements).

Psychology Core Requirements

- These courses are essential for all psychology majors. PSYC202, 205, and 409 should be conceived as a three course sequence. You must complete MATH107 (C- min.) by the time you begin PSYC205. A B minus or better will be necessary in each of these three core courses to continue in the sequence as well as to graduate with the B.S. degree. B minus or better is also required for PSYC100, 204, 215, 250, 499. C plus or better is required in the Psychology Supplemental Core Requirement Courses (3 s.h. each in the Cognitive Processes, Developmental Processes, and Individual Processes areas). C plus or better is also required for all Psychology Electives.

Importance of academic advising

- The B.S. in Psychology degree program is a focused preparation for graduate study in the field of psychology. Every aspect of the degree is designed in the context of how we can best prepare you for further graduate study in psychology. The program requires high standards of performance and includes specific writing, speech, lab science, and information technology enhancements. The program also requires research experience through independent study. Students in the B.S. program are expected to declare a specific pathway of study with their academic advisor early in the pursuit of the B.S. degree. It is this pathway designation that allows your advisor to help you with selecting courses both in psychology and in other departments that best suit your graduate study goals.
- Students are encouraged to carefully and frequently review their progress toward the B.S. with their academic advisor or the psychology department chairperson. Students who do not meet minimum grade requirements for the B.S. may switch to the B.A. degree track; however, the General Education requirements are different (e.g., foreign language and Liberal Arts Seminar requirements) and may result in the need for additional semesters of study to complete the degree. Because it can take up to four semesters to complete the foreign language requirement for the B.A., students are advised to change to the B.A. before the beginning of their junior year if successful completion of the B.S. seems unlikely.

COMMUNITY/COMMERCIAL TRACK
Recommended Major Course Sequence

FALL SEMESTER

SPRING SEMESTER

FRESHMAN YEAR

SH

SH

RECR105 Leisure, Wellness, and Personal Lifestyle*	3	RECR244 Recreation Leadership and Supervision*	3
RECR110 Introduction to Recreation and Leisure*	3		

SUMMER (between freshman and sophomore year)

RECR210 Field Participation in Recreation 3

SOPHOMORE YEAR

RECR215 Travel and Tourism	3	RECR315 Program Planning and Design in Recreation*	3
RECR275 Recreation Services for People with Disabilities*	3	RECR325 Camp Counseling and Administration	3

JUNIOR YEAR

RECR300 Special Event and Convention Center Management	3	RECR200 Personal Training & Aerobic Leadership OR RECR355 Outdoor Recreation OR RECR356 Outdoor Education	3
RECR330 Marketing Recreation Services*	3	RECR304 Finance and Acquisition of Recreation Resources	3
RECR402 Leisure Education and Innovative Programming in Therapeutic Recreation	3	RECR340 Commercial Recreation	3

SENIOR YEAR

PROFESSIONAL SEMESTER*

RECR410 Current Issues in Recreation Seminar	3	RECR425 Professional Field Experience in Recreation	10 or 12
RECR415 Organization and Management of Recreation	3		
RECR420 Recreation Resource Management	3		
RECR430 Assessment, Evaluation and Research for Recreation Services	3		

Note: The sequence above does not include the additional 10 semester hours of area studies required.

*Offered both fall and spring semesters.

LOCK HAVEN UNIVERSITY
RECREATION MANAGEMENT
Community/Commercial Track
REQUIREMENTS

GENERAL EDUCATION COURSES (52 s. h.)

Humanities (18 s.h.)

- ___ Art/Music/Theatre/Dance (3)
- ___ Art/Music/Theatre/Dance (3)
- ___ Literature (3)
- ___ Philosophy (3)
- ___ Composition (3)
- ___ Speech (SPCH 102 recommended) (3)

Natural Sciences/Math (9 s.h.)

- ___ Laboratory Science (3)
- ___ Laboratory Science (3)
- ___ Math (3)

History/Social Sciences (12 s.h.)

- ___ World History (3)
- ___ Economics/Political Science (3)
- ___ Psychology (3)
- ___ Sociology/Anthropology/Geography/Social Work (3)

Wellness (3 s.h.)

- ___ RECR105** Leisure, Wellness, and Personal Lifestyle (3)

ELECTIVES (10 s.h.)

Suggested Electives:

- ___ RECR119 First Year Student Seminar (1)
- ___ RECR202 Outdoor Activities and Leadership (3)
- ___ RECR203 Team Building and Challenge Course Facilitation (3)

CORE COURSES (40 s.h.)

- ___ RECR105** Leisure, Wellness and Personal Lifestyle (3) (Meets Gen. Ed. requirements)
- ___ RECR110 Intro to Recreation and Leisure (3)
- ___ RECR210 Field Participation in Recreation (3)
- ___ RECR244 Recreation Leadership and Supervision (3)
- ___ RECR275 Recreation Services for People with Disabilities (3)
- ___ RECR315 Program Planning and Design (3)
- ___ RECR330 Marketing Recreation Services (3)

PROFESSIONAL SEMESTER:

- ___ RECR410 Seminar in Current Issues in Recreation (3)
- ___ RECR415 Organization and Management of Recreation (3)
- ___ RECR420 Recreation Resource Management (3)
- ___ RECR430 Assessment, Evaluation and Research in Recreation (3)

SENIOR INTERNSHIP:

- ___ RECR425 Professional Field Experience in Recreation (10-12)

Grade Requirements:

- 2.0 GPA
- 2.3 in selected courses prior to RECR210
- 2.5 in major prior to Professional Semester
- A minimum overall of 2.0 in the Professional Semester courses.

**Counted toward credit total under General Education Wellness column

1. Community/Commercial Prescribed Courses..... 18 s.h.

- RECR215 Travel and Tourism (3)
- RECR300 Special Events/Convention Center Management (3)
- RECR304 Finance and Acquisitions in Recreation Resources (3)
- RECR325 Camp Counseling (3)
- RECR340 Commercial Recreation (3)

Select one RECR course from below:

- RECR200 Personal Training and Aerobic Leadership (pre-requisites) (3)
- RECR355 Outdoor Recreation (3)
- RECR356 Outdoor Education (3)
- RECR402 Leisure Education and Innovative Programming in Therapeutic Recreation

2. Area Studies10 s.h.

A. Required Courses (6 s.h.)

Based on your career objectives and in consultation with your academic advisor, you must select two courses (6 semester hours) from the list below. At least one course (3 semester hours) must be from the Recreation Management curriculum that has not been selected from above.

- RECR203 Teambuilding and Challenge Course Facilitation (3)
- RECR320 Interpreting the Environment (3)
- RECR356 Outdoor Education (3)
- RECR357 Intramural Supervision (3)
- RECR402 Leisure Education and Innovative Programming in Therapeutic Recreation
- RECR355 Outdoor Recreation (3)
- ACCT110 Accounting (3)
- CISC150 Introduction to Computers (3)
- POLI210 State and Local Government (3)
- SOCI205 Racial and Ethnic Relations (3)
- ENGL258 Business Writing (3)
- PSYC235 Interpersonal & Leadership Skills (3)
- PSYC240 Life Span Development (3)
- PSYC 328 Social Science Seminar (3)

B. Support Courses (select a minimum of 4 semester hours)

To be approved by student’s academic advisor and the Community/Commercial Track Coordinator based on the student’s preferred career path.

Selected Support Courses

_____	_____
_____	_____
_____	_____

FITNESS MANAGEMENT TRACK
Recommended Major Course Sequence

FALL SEMESTER

SPRING SEMESTER

FRESHMAN YEAR

	<u>SH</u>		<u>SH</u>
RECR105 Leisure, Wellness, and Personal Lifestyle*	3	RECR200 Personal Training Aerobic Leadership	3
RECR110 Introduction to Recreation and Leisure*		RECR244 Recreation Leadership and Supervision*	3
RECR119 First Year Student Seminar	1	HLTH128 Anatomy and Physiology I*	3
		HLTH129 Anatomy and Physiology I Lab *	1

SUMMER (between freshman and sophomore year)

RECR210 Field Participation in Recreation 3

SOPHOMORE YEAR

RECR205 Nutrition for Wellness*	3	RECR275 Recreation Services for People with Disabilities*	3
RECR315 Program Planning and Design in Recreation*	3	HLTH353 Physiology of Exercise*	3
HLTH130 Anatomy and Physiology II*	3		
HLTH131 Anatomy and Physiology II Lab*	1		

JUNIOR YEAR

RECR301 Exercise Prescription	3	RECR302 Supervision of Strength Training Programs	3
RECR303 Sports Nutrition Services*	3	RECR312 Teaching Conditioning Principles for Cert. Testing	3
RECR330 Marketing Recreation Services*			
HLTH305 Introduction to Biomechanics*			
OR			
HPED352 Kinesiology*	2/3		

SENIOR YEAR

PROFESSIONAL SEMESTER*

RECR405 Health Promotion at the Worksite #	3	RECR425 Professional Field Experience in Recreation (or summer)	10-12
RECR410 Seminar in Current Issues			
RECR415 Organization and Management of Recreation	3		
RECR420 Recreation Resource Management	3		
RECR430 Assessment, Evaluation, and Research for Recreation Services	3		

*Offered both fall and spring semesters.
#Only offered during fall semester.

LOCK HAVEN UNIVERSITY
RECREATION MANAGEMENT
Fitness Management Track
REQUIREMENTS

GENERAL EDUCATION COURSES (46 s.h.)

Humanities (18 s.h.)

- ___ Art/Music/Theatre/Dance (3)
- ___ Art/Music/Theatre/Dance (3)
- ___ Literature (3)
- ___ Philosophy (3)
- ___ Composition (3)
- ___ Speech (COMM 102 recommended) (3)

Natural Sciences/Math (9 s.h.)

- ___ Laboratory Science (3)
- ___ Laboratory Science (3)
- ___ Math (3)

History/Social Sciences (12 s.h.)

- ___ World History (3)
- ___ Economics/Political Science (3)
- ___ Psychology (3)
- ___ Sociology/Anthropology/Geography (3)

Wellness (3 s.h.)

- ___ **RECR105 Leisure, Wellness, Personal Lifestyle

ELECTIVES (4 s.h.)

- ___ ♦RECR119 First Year Student Seminar (1)
- ___ _____
- ___ _____
- ___ _____
- ___ _____

♦Required Elective

CORE COURSES (43 s.h.)

- ___ RECR105** Leisure, Wellness, and Personal Lifestyle (3) (Meets Gen. Ed. Wellness requirement)
- ___ RECR110 Introduction to Recreation and Leisure (3)
- ___ RECR210 Field Participation in Recreation (3)
- ___ RECR244 Recreation Leadership and Supervision (3)
- ___ RECR275 Recreation Services for People with Disabilities (3)
- ___ RECR315 Program Planning and Design in Recreation (3)
- ___ RECR330 Marketing Recreation Services (3)

PROFESSIONAL SEMESTER:

- ___ RECR405 Health Promotion at the Worksite* (3)
 - ___ RECR410 Seminar in Current Issues of Recreation (3)
 - ___ RECR415 Organization and Management of Recreation (3)
 - ___ RECR420 Recreation Resource Management (3)
 - ___ RECR430 Assessment, Evaluation and Research for Recreation Services (3)
- *Must be taken Fall Semester of senior year

SENIOR INTERNSHIP:

- ___ RECR425 Professional Field Experience in Recreation (10-12)

Grade Requirements:

- 2.0 GPA maintained
- 2.3 in major prior to RECR210
- 2.5 in major prior to Professional Semester
- A minimum overall of 2.0 in the Professional Semester courses.

**Counted toward credit total under General Education Wellness column

1. Fitness Management Prescribed Courses29 s.h.

___ RECR200 Personal Training and Aerobic Leadership 3 s.h.

___ RECR205 Nutrition for Wellness 3 s.h.

___ RECR301 Exercise Prescription..... 3 s.h.

___ RECR302 Supervision of Strength Training Programs 3 s.h.

___ RECR303 Sports Nutrition..... 3 s.h.

___ RECR312 Teaching Conditioning Principles for Certification Testing 3 s.h.

___ HLTH128 Anatomy and Physiology 1* 3 s.h.

___ HLTH129 Anatomy and Physiology 1 Lab..... 1 s.h.

___ HLTH130 Anatomy and Physiology 2* 3 s.h.

___ HLTH131 Anatomy and Physiology 2 Lab..... 1 s.h.

___ HLTH353 Physiology of Exercise..... 3 s.h.

*Must earn C's in these courses to be able to enroll in HLTH353 Physiology of Exercise.

2. Area Studies2 s.h.

___ HPED352 Kinesiology 2 s.h.

___ HLTH305 Introduction to Biomechanics 3 s.h.

NOTE: *To help with course sequencing, be advised:*

1. RECR200 Personal Training and Aerobic Leadership, is a prerequisite for RECR301 Exercise Prescription.
2. RECR210 Field Experience is a prerequisite for RECR405 Health Promotion at the Worksite.
3. RECR405 is only offered during the fall semester. All students must take this course during the fall semester of their senior year.

OUTDOOR RECREATION TRACK
Recommended Major Course Sequence

FALL SEMESTER

SPRING SEMESTER

FRESHMAN YEAR

	<u>SH</u>		<u>SH</u>
RECR105 Leisure, Wellness, and Personal Lifestyle*	3	RECR202 Outdoor Activities and Leadership	3
RECR110 Introduction to Recreation and Leisure*	3	RECR244 Recreation Leadership and Supervision*	3

SUMMER (between freshman and sophomore year)

RECR210 Field Participation in Recreation 3

SOPHOMORE YEAR

RECR203 Teambuilding and Challenge Course Facilitation	3	RECR320 Interpreting the Environment	3
RECR275 Recreation Services for People with Disabilities*	3	RECR355 Outdoor Recreation	3

JUNIOR YEAR

RECR315 Program Planning and Design in Recreation*	3	RECR325 Camp Counseling and Administration	3
RECR330 Marketing Recreation Services*	3	RECR356 Outdoor Education	3

SENIOR YEAR

PROFESSIONAL SEMESTER*

RECR410 Seminar in Current Issues in Recreation	3	RECR425 Professional Field Experience in Recreation (or summer)	
RECR415 Organization and Management of Recreation	3		10-12
RECR420 Recreation Resource Management	3		
RECR430 Assessment, Evaluation and Research for Recreation Services: Method and Design	3		

*Offered both fall and spring semesters

LOCK HAVEN UNIVERSITY
RECREATION MANAGEMENT
Outdoor Recreation Track
REQUIREMENTS

GENERAL EDUCATION COURSES (52 s.h.)

Humanities (18 s.h.)

- Art/Music/Theatre/Dance (3)
Art/Music/Theatre/Dance (3)
Literature (3)
Philosophy (3)
Composition (3)
Speech (COMM102 recommended) (3)

Natural Sciences/Math (9 s.h.)

- Laboratory Science (3)*
Laboratory Science (3)*
Math (3)

History/Social Sciences (12 s.h.)

- World History (3)
Economics/Political Science (3)
Psychology (3)
Sociology/Anthropology/Geography (3)

Wellness (3 s.h.)

- RECR105**Leisure, Wellness, and Personal Lifestyle

ELECTIVES (10 s.h.)

- RECR119 First Year Student Seminar (1)

*It is recommended that BIOL108 Field Natural History be taken as one of the General Education Science requirements.

CORE COURSES (40 s.h.)

- RECR105**Leisure, Wellness, and Personal Lifestyle (3) (Meets Gen. Ed. Wellness requirements)
RECR110 Introduction to Recreation and Leisure (3)
RECR210 Field Participation in Recreation (3)
RECR244 Recreation Leadership and Supervision (3)
RECR275 Recreation Services for People with Disabilities (3)
RECR315 Program Planning and Design in Recreation (3)
RECR330 Marketing Recreational Services (3)

PROFESSIONAL SEMESTER:

- RECR410 Seminar in Current Issues in Recreation (3)
RECR415 Organization and Management of Recreation (3)
RECR420 Recreation Resource Management (3)
RECR430 Assessment, Evaluation and Research in Recreation (3)

SENIOR INTERNSHIP:

- RECR425 Professional Field Experience in Recreation (10-12)

Grade Requirements:

- 2.0 GPA maintained
2.3 in major prior to RECR210
2.5 in major prior to Professional Semester
A minimum overall of 2.0 in the Professional Semester courses.

**Counted toward credit total under General Education Wellness column

1. Outdoor Prescribed Courses 18 s.h.

Select six (6) of the seven (7) following courses.

- ___ RECR290 Special Topics in Recreation 3 s.h.
- ___ RECR202 Outdoor Activities and Leadership..... 3 s.h.
- ___ RECR203 Team Building and Challenge Course Facilitation..... 3 s.h.
- ___ RECR320 Interpreting the Environment 3 s.h.
- ___ RECR325 Camp Counseling and Administration 3 s.h.
- ___ RECR355 Outdoor Recreation 3 s.h.
- ___ RECR356 Outdoor Education 3 s.h.

2. Area Studies..... 10 s.h.

A. Science (Select one of the following courses) 3 s.h.

- ___ BIOL 101 Basic Biology 3 s.h.
- ___ BIOL 102 Environmental Science..... 3 s.h.
- ___ BIOL 108 Field Natural History..... 3 s.h.
- ___ BIOL 205* Marine Ecology 3 s.h.
- ___ BIOL 240* Zoology 3 s.h.
- ___ BIOL 309* Ecology 3 s.h.
- ___ BIOL 405* Field Ecology 3 s.h.
- ___ BIOL 409* Ornithology 3 s.h.
- ___ GEOS 101 Earth Science..... 3 s.h.
- ___ GEOS 110 Physical Geology 3 s.h.
- ___ GEOS 120 Oceanography 3 s.h.
- ___ GEOS 150 Astronomy I 3 s.h.
- ___ GEOS 215* Environmental Geology 3 s.h.
- ___ GEOS 230* Geomorphology..... 3 s.h.
- ___ GEOS ___ Special Topics: Introduction To Geographic Information 2 s.h.
- MUST co-register with 1 of the 3 courses below (259)
- ___ GEOG 259 Applications of GIS in Geography.. 1 s.h.
- ___ GEOS 259 Applications of GIS in Geology 1 s.h.
- ___ BIOL 259 Applications of GIS in Biology 1 s.h.

B. Support Courses (Select a minimum of 7 s.h.)..... 7 s.h.

To be approved by student’s academic advisor and outdoor track coordinator based on student’s career goals.

*Prerequisites apply

Note: To help with course sequencing, be advised of this prerequisite.
It is highly recommended that Teambuilding and Challenge Course Facilitation (RECR 203) be taken either freshman or sophomore year.

THERAPEUTIC RECREATION
Recommended Major Course Sequence

FALL SEMESTER

SPRING SEMESTER

FRESHMAN YEAR

	<u>SH</u>		<u>SH</u>
RECR105 Leisure, Wellness and Personal Lifestyle*	3	RECR244 Recreation Leadership and Supervision* .	3
RECR110 Intro to Recreation and Leisure*	3	PSYC100 Introduction to Psychology*	3

SOPHOMORE YEAR

HLTH122 Anatomy and Physiology *	3	HLTH100 Medical Terminology*	1
RECR275 Recreation Services for People with Disabilities*	3	RECR201 Medical Conditions in TR	3
		PSYC240 Life-Span Development*	3
		RECR204 Foundations of Therapeutic Recreation	3

SUMMER

RECR210 Field Participation – 3 SH

JUNIOR YEAR

PSYC307 Abnormal Psychology*	3	RECR330 Marketing Recreation Services*	3
RECR315 Program Planning and Design in Recreation*	3	RECR364 Therapeutic Recreation Assessment and Documentation	3
		RECR365 Therapeutic Recreation Methods and Techniques	3

SENIOR YEAR

PROFESSIONAL SEMESTER*

RECR410 Seminar in Current Issues*	3	RECR425 Professional Field Experience in Recreation (or summer) #	12**
RECR415 Organization and Management*	3	** will change to 14 weeks/560 hours in Spring 2012	
RECR420 Resource Management*	3	#RECR425 must meet all NCTRC requirements including but not limited to a maximum of 12 weeks (480 hours) of field experience. See above change as noted.	
RECR430 Assessment, Evaluation, and Research for Recreation Services*3			
RECR402 Leisure Education in Therapeutic Recreation	3		

*Offered both fall and spring semesters.

LOCK HAVEN UNIVERSITY
RECREATION MANAGEMENT
Outdoor Recreation Track
REQUIREMENTS

GENERAL EDUCATION COURSES (52 s.h.)

Humanities (18 s.h.)

- ___ Art/Music/Theatre/Dance (3)
- ___ Art/Music/Theatre/Dance (3)
- ___ Literature (3)
- ___ Philosophy (3)
- ___ Composition (3)
- ___ Speech (COMM102 recommended) (3)

Natural Sciences/Math (9 s.h.)

- ___ Laboratory Science (3)*
- ___ Laboratory Science (3)*
- ___ Math (3)

History/Social Sciences (12 s.h.)

- ___ World History (3)
- ___ Economics/Political Science (3)
- ___ Psychology (3)
- ___ Sociology/Anthropology/Geography (3)

Wellness (3 s.h.)

- ___ RECR105**Leisure, Wellness, and Personal Lifestyle

ELECTIVES (10 s.h.)

- ___ RECR119 First Year Student Seminar (1)
- ___ _____
- ___ _____
- ___ _____
- ___ _____
- ___ _____

*It is recommended that BIOL108 Field Natural History be taken as one of the General Education Science requirements.

CORE COURSES (40 s.h.)

- ___ RECR105**Leisure, Wellness, and Personal Lifestyle (3) (Meets Gen. Ed. Wellness requirements)
- ___ RECR110 Introduction to Recreation and Leisure (3)
- ___ RECR210 Field Participation in Recreation (3)
- ___ RECR244 Recreation Leadership and Supervision (3)
- ___ RECR275 Recreation Services for People with Disabilities (3)
- ___ RECR315 Program Planning and Design in Recreation (3)
- ___ RECR330 Marketing Recreational Services (3)

PROFESSIONAL SEMESTER:

- ___ RECR410 Seminar in Current Issues in Recreation (3)
- ___ RECR415 Organization and Management of Recreation (3)
- ___ RECR420 Recreation Resource Management (3)
- ___ RECR430 Assessment, Evaluation and Research in Recreation (3)

SENIOR INTERNSHIP:

- ___ RECR425 Professional Field Experience in Recreation (10-12)

Grade Requirements:

- 2.0 GPA maintained
- 2.3 in major prior to RECR210
- 2.5 in major prior to Professional Semester
- A minimum overall of 2.0 in the Professional Semester courses.

**Counted toward credit total under General Education Wellness column

1. Outdoor Prescribed Courses 18 s.h.

Select six (6) of the seven (7) following courses.

- ___ RECR290 Special Topics in Recreation 3 s.h.
- ___ RECR202 Outdoor Activities and Leadership..... 3 s.h.
- ___ RECR203 Team Building and Challenge Course Facilitation..... 3 s.h.
- ___ RECR320 Interpreting the Environment 3 s.h.
- ___ RECR325 Camp Counseling and Administration 3 s.h.
- ___ RECR355 Outdoor Recreation 3 s.h.
- ___ RECR356 Outdoor Education 3 s.h.

2. Area Studies..... 10 s.h.

A. Science (Select one of the following courses) 3 s.h.

- ___ BIOL 101 Basic Biology 3 s.h.
- ___ BIOL 102 Environmental Science..... 3 s.h.
- ___ BIOL 108 Field Natural History..... 3 s.h.
- ___ BIOL 205* Marine Ecology 3 s.h.
- ___ BIOL 240* Zoology 3 s.h.
- ___ BIOL 309* Ecology 3 s.h.
- ___ BIOL 405* Field Ecology 3 s.h.
- ___ BIOL 409* Ornithology 3 s.h.
- ___ GEOS 101 Earth Science..... 3 s.h.
- ___ GEOS 110 Physical Geology 3 s.h.
- ___ GEOS 120 Oceanography 3 s.h.
- ___ GEOS 150 Astronomy I 3 s.h.
- ___ GEOS 215* Environmental Geology 3 s.h.
- ___ GEOS 230* Geomorphology..... 3 s.h.
- ___ GEOS ___ Special Topics: Introduction To Geographic Information 2 s.h.
- MUST co-register with 1 of the 3 courses below (259)
- ___ GEOG 259 Applications of GIS in Geography.. 1 s.h.
- ___ GEOS 259 Applications of GIS in Geology 1 s.h.
- ___ BIOL 259 Applications of GIS in Biology 1 s.h.

B. Support Courses (Select a minimum of 7 s.h.)..... 7 s.h.

To be approved by student's academic advisor and outdoor track coordinator based on student's career goals.

*Prerequisites apply

Note: To help with course sequencing, be advised of this prerequisite.
It is highly recommended that Teambuilding and Challenge Course Facilitation (RECR 203) be taken either freshman or sophomore year.

**Requirements for the
Bachelor of Science in Education: Secondary English Certification with
Second Major in Special Education
Revised Fall 2009**

Name:

ID#:

Advisor: BAKER/PENMAN

General Education

For a list of courses that meet these requirements, see:

http://www.lhup.edu/academic/acad_affairs/general_education_course_list.htm

Requirement	Course Number/Name	s.h.	Date Completed	Grade
Composition	ENGL 100 (minimum grade C)	3		
Literature*	ENGL 220 World Literature (minimum grade C; offered spring only)	3		
Philosophy	PHIL	3		
Art/Music		3		
Theater	THEA 110 Theater: An Orientation	3		
Speech	(minimum grade C-)	3		
World History	HIST	3		
Gov/Econ		3		
Soc/Anthro/Geog	SOCI 101	3		
Lab Science	(minimum grade C-)	3		
Lab Science	(minimum grade C-)	3		
Mathematics**	MATH 102 (minimum grade C)	3		
Mathematics	(minimum grade C)	3		
Wellness		3		
Elective	ENGL 280 Intro. to the Study of Language (offered fall only)	3		
Elective	ENGL 205 Intro. to Literary Study (offered fall only)	3		
Elective	SPEC119 OR ENGL119 1st-Year Seminar (offered fall only)	1		
Total General Education S.H.		49		

**Suggested math courses are MATH101, MATH107, or MATH110.

General-Education Overlays

Students are also responsible for meeting General Education requirements in Writing Emphasis (WE), Multicultural Emphasis (MC), Information Literacy (IL), and External Experiences (EE). These courses can count as overlays as well as General Education or Major courses.

Overlay	Course Number	Date Completed
MC-1		
MC-2		
WE-1	ENGL206	
WE-2	ENGL312	
WE-3	ENGL415	
IL-1	ENGL206	
IL-2	ENGL312	
EE-1	ENGL493	
EE-2	ENGL494	



Professional Education (Minimum Grade of C Required for All Courses)

Course Number/Name	s.h.	Date Completed	Grade
PSYC103 Adolescent Psychology	3		
PSYC201 Educational Psychology (spring, with ENGL206)	3		
ENGL206 Teaching Methods I (spring, with PSYC201)	3		
SPEC202 Cultural and Linguistic Diversity	3		
Total Special Ed Content S.H.	12		

English Content (Minimum Grade of C Required for All Courses)

Requirement	Course Number/Name	s.h.	Date Completed	Grade
Literatures	ENGL 235 Adolescent Lit. (spring only)	3		
	ENGL 230 English Lit. Before 1800 (fall only)	3		
	ENGL 231 English Lit. After 1800 (spring only)	3		
	ENGL 240 American Lit. Before Civil War (fall only)	3		
	ENGL 242 American Lit. After Civil War (spring only)	3		
	ENGL 336 Shakespeare (spring only)	3		
Writing & Language	ENGL 315 Composition Usage & Editing (spring only)	3		
	ENGL 405 Grammars of English (fall only)	3		
One of the following: ENGL 354 Business Writing ENGL 264 Fiction Workshop ENGL 266 Drama Workshop ENGL 268 Poetry Workshop ENGL 237 Creative Nonfiction Workshop ENGL 408 Advanced Topics in Creative Writing ENGL 360 Technical Writing		3		
English Electives (8 s.h.) (Any 200-400 ENGL writing course or any 300-400 ENGL literature course)		3		
		3		
	Total English S.H.	33		

Special Education Content (Minimum Grade of C Required for All Courses)

Course Number/Name	s.h.	Date Completed	Grade
SPEC105 Foundations of Special Education	3		
SPEC215 High Incidence Disabilities Support	3		
SPEC212 Low Incidence Disabilities Support	3		
SPEC338 Positive Behavior Support	3		
SPEC300 Communication Disorders & Asst. Tech.	3		
SPEC345 Literacy Skills for Students with Disabilities	3		
Total Special Ed Content S.H.	18		

**English/Special Education Professional Semester
(Minimum Grade of C Required for All Courses)**

Course Number/Name	s.h.	Date Completed	Grade
SPEC430 Assessing Educational Needs & Planning for Instruction	3		
SPEC444 Strategies for Teaching Students with High Incidence Disabilities	3		
SPEC440 Strategies for Teaching Students with Low Incidence Disabilities	3		
SPEC425 Law and Collaborative Practices	3		
ENGL312 Methods of Teaching English II	4		
Total Special Ed Content S.H.	16		

Student Teaching (Minimum Grade of C Required for All Courses)

Course Number/Name	s.h.	Date Completed	Grade
ENGL493 Student Teaching & Practicum	6		
ENGL494 Student Teaching & Practicum	6		
Total Special Ed Content S.H.	12		

Total Credits for Graduation = 140

ADVISEMENT NOTES

Clearances are required every year, and must be obtained before beginning observation hours.
 FBI clearance is only needed once (assuming continuous enrollment).
 TB tests are required every two years.
 Overall GPA required to achieve Candidacy and Advanced Standing: 3.000.
 Begin taking PPST and Praxis I exams during freshman year; passing scores required for ENGL206.
 Overall GPA of 3.000 required for admittance into ENGL206.

**SECONDARY MATHEMATICS CERTIFICATION WITH A SECOND MAJOR IN SPECIAL EDUCATION
REQUIREMENTS
LOCK HAVEN UNIVERSITY OF PENNSYLVANIA**

Name: _____

Advisor: _____

Required Total Number of Credit Hours for Graduation = 138**GENERAL EDUCATION: REQUIRED (TOTAL = 36 S.H.)**

CURRICULUM AREA	COURSE NUMBER/ COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
Composition		C-		3 s.h.
Philosophy				3 s.h.
Speech		C-		3 s.h.
Literature		C-		3 s.h.
Art/Music/Theater				3 s.h.
Art/Music/Theater				3 sh.
Lab Science		C-		3 s.h.
Lab Science		C-		3 s.h.
Mathematics	absorbed in major	C		3 s.h.
Psychology	absorbed in major	C		3 s.h.
Sociology/Anthropology				3 s.h.
World History		C-		3 s.h.
Govt./Econ./Pol.Sci.				3 s.h.
Wellness				3 s.h.

PROFESSIONAL EDUCATION (TOTAL = 14 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
EDTF 101: Social Foundations of Education	C		2 s.h.
PSYC 103: Adolescent Development	C		3 s.h.
SPEC 202: Cultural and Linguistic Diversity	C		3 s.h.
MATH 200: Secondary Math Methods 1	C	WE, IL, EE	3 s.h.
PSYC 201: Educational Psychology	C		3 s.h.

REQUIRED MATHEMATICS EDUCATION CONTENT COURSES (TOTAL = 40 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
SPEC 119 or MATH119: First Year Seminar	C		1 s.h.
COMP160: Programming 1	C		3 s.h.
MATH 141: Calculus 1	C		3 s.h.
MATH142: Calculus 2	C		3 sh.
MATH205: Foundations of Mathematics	C		3 s.h.
MATH225: History of Mathematics	C	WE	3 s.h.
MATH243: Calculus 3	C		3 s.h.
MATH302: Number Theory	C		3 s.h.
MATH307: Foundations of Geometry	C		3 s.h.
MATH310: Modern Algebra I	C		3 s.h.
MATH311: Elements of Linear Algebra	C		3 s.h.
MATH312: Probability and Statistics	C		3 s.h.
MATH401: Real Analysis	C		3 s.h.
MATH1xx: Elective above 112	C		3 s.h.

MATHEMATICS EDUCATION PROFESSIONAL SEMESTER (Total 6 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
MATH316: Methods of Teaching Math 2	C	WE, IL, EE	4 s.h.
EDUC 313: Classroom Management	C		2. s.h.

REQUIRED SPECIAL EDUCATION (Total 18 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
SPEC 105 Foundations of Special Education	C		3 s.h.
SPEC 215 High Incidence Disabilities Support	C		3 s.h.
SPEC 212 Low Incidence Disabilities Support	C		3 s.h.
SPEC 338 Positive Behavior Support	C		3 s.h.
SPEC 300 Communication Disorders and Assistive Technology	C		3 s.h.
SPEC 345 Literacy Skills for Students with Disabilities	C		3 s.h.

SPECIAL EDUCATION PROFESSIONAL SEMESTER (Total 12 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
SPEC 430 Assessing Educational Needs and Planning for Instruction	C		3 s.h.
SPEC 441 Strategies for Teaching Students with High Incidence Disabilities	C		3 s.h.
SPEC 440 Strategies for Teaching Students with Low Incidence Disabilities	C		3 s.h.
SPEC 425 Law and Collaborative Practices	C	WE	3 s.h.

Student Teaching (Total 12 S.H.)

MATH 493 /494 Student Teaching and Practicum	C	EE, WE, IL	6 s.h.
SPEC 493/494 Student Teaching and Practicum	C	EE, WE, IL	6 s.h.

ADVISEMENT NOTES

Clearances are required every year, and must be obtained before beginning observation hours.
 TB tests are required every two years.
 Overall GPA required to achieve Advanced Standing: 3.0
 Begin taking PPST exams during Freshman year.
 Overlays required: 2 Information Literacy
 3 Writing Emphasis
 2 Multicultural
 2 External Experience

**SECONDARY SOCIAL STUDIES CERTIFICATION WITH SECOND MAJOR IN SPECIAL EDUCATION
REQUIREMENTS
LOCK HAVEN UNIVERSITY OF PENNSYLVANIA**

Name: _____

Advisor: _____

Required Total Number of Credit Hours for Graduation = 143**GENERAL EDUCATION: REQUIRED (TOTAL = 27 S.H.)**

CURRICULUM AREA	COURSE NUMBER/ COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
Composition		C-	IL	3 s.h.
Philosophy		C-		3 s.h.
Speech		C-		3 s.h.
Literature		C-		3 s.h.
Art/Music/Theater		C-		3 s.h.
Art/Music/Theater		C-		3 sh.
Wellness		C-		3 s.h.
Lab Science	BIOL 102, CHEM101 or GEOS101 recommended	C-		3 s.h.
Mathematics	Not MATH 107	C-		3 s.h.
Lab Science-SCI 110	Absorbed in prof. ed. courses	C		3 s.h.
Psychology-PSYC 103	absorbed in prof. ed. courses	C		3 s.h.
Sociology/Anthropology	absorbed in major	C		3 s.h.
World History	absorbed in major	C		3 s.h.
Geog./Econ./Pol.Sci.	absorbed in major	C		3 s.h.

REQUIRED PROFESSIONAL EDUCATION (TOTAL = 19 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
SCI110: Science, Technology & Society	C		3 s.h.
PSYC103: Adolescent Development	C		3 s.h.
SSED210: Methods of Teaching Social Studies (Spring)	C	WE	3 s.h.
PSYC201: Educational Psychology (Spring w/SSED210)	C		3 s.h.
MATH107: Statistics	C		3 s.h.
SPEC202: Cultural and Linguistic Diversity in Education	C		3 s.h.
SPEC119 OR SCED119 Freshman Seminar	C		1 s.h.

REQUIRED SOCIAL STUDIES EDUCATION CONTENT COURSES (TOTAL = 51 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
HIST111: Global History I	C	WE, MC	3 s.h.
HIST112: Global History II	C	WE, MC	3 s.h.
HIST200: Historical Thinking & Writing	C	WE, IL	3 sh.
HIST201: U.S. History I	C		3 s.h.
HIST202: U.S. History II	C		3 s.h.
HIST (3—or4--) Non West Elective	C		3 s.h.
HIST (3—or4--) Non West Elective	C		3 s.h.
HIST (3—or4--) Europe Elective	C		3 s.h.
HIST (3—or4--) U.S. Elective	C		3 s.h.
POLI105: American National Government	C		3 s.h.
POLI107: World Politics	C		3 s.h.
ECON101: Principles of Economics	C		3 s.h.
ECON--: Elective	C		3 s.h.
GEOG260: World Regional Geography	C		3 s.h.
GEOG--: Elective	C		3 s.h.
SOC1101: Introduction to Sociology	C	MC	3 s.h.
ANTH (3—or4--): Elective	C	MC	3 sh.

REQUIRED SPECIAL EDUCATION CONTENT (Total 18 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
SPEC 105 Foundations of Special Education	C		3 s.h.
SPEC 215 High Incidence Disabilities Support	C		3 s.h.
SPEC 212 Low Incidence Disabilities Support	C		3 s.h.
SPEC338 Positive Behavior Support	C		3 s.h.
SPEC 300 Communication Disorders and Assistive Technology	C		3 s.h.
SPEC 345 Literacy Instruction for Students with Disabilities	C		3 s.h.

SOCIAL STUDIES/SPECIAL EDUCATION PROFESSIONAL SEMESTER (Total 16 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
SSED316: Methods for Teaching Social Studies II	C		4 s.h.
SPEC430 Assessing Educational Needs and Planning for Instruction	C		3 s.h.
SPEC 441 Strategies for Teaching Students with High Incidence Disabilities	C		3 s.h.
SPEC 440 Strategies for Teaching Students with Low Incidence Disabilities	C		3 s.h.
SPEC 425 Law and Collaborative Practices	C	WE	3 s.h.

Student Teaching (Total 12 S.H.)

SSED 493 /494 Student Teaching and Practicum	C	EE, WE, IL	6 s.h.
SPEC 493/494 Student Teaching and Practicum	C	EE, WE, IL	6 s.h.

ADDITIONAL COURSEWORK (OPTIONAL) OR MINOR

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	SEMESTER HOURS

ADVISEMENT NOTES

Clearances are required every year, and must be obtained before beginning observation hours.
 TB tests are required every two years
 Overall GPA required to achieve Advanced Standing: 3.0
 Begin taking PPST exams during Freshman year. Passed scores required for SSED210
 Candidacy is required for upper division upper division coursework
 Overlays required: 2 Information Literacy
 3 Writing Emphasis
 2 Multicultural
 2 External Experience

Department of Biological Sciences, Lock Haven University
B.S. ED. SECONDARY EDUCATION - BIOLOGY
 DEGREE REQUIREMENTS (Beginning Fall 2008) - 129 credits

Student _____ ID # _____
 Notes: _____

GENERAL EDUCATION REQUIREMENTS (52 s.h.)

http://www.lhup.edu/academic/acad_affairs/general_education_course_list.htm

	S.H.	Course	When	min Grade
I. Wellness Core (3 s.h.)	3 s.h.	_____	_____	_____
II. Skills Core (9 s.h.)				
English Composition	3 s.h.	Composition	_____	C- _____
Mathematics	3 s.h.	MATH 141 Calculus	_____	C _____
Speech	3 s.h.	_____	_____	C- _____
III. Content Core (30 s.h.)				
A. Humanities (12 s.h.)				
Art/Music/Theatre/Dance	6 s.h.	_____	_____	_____
		_____	_____	_____
Philosophy	3 s.h.	_____	_____	_____
Literature	3 s.h.	_____	_____	_____
B. Social & Behavioral Sciences (12 s.h.)				
World History I or II	3 s.h.	_____	_____	C- _____
Political Sciences/Economics	3 s.h.	_____	_____	_____
Psychology	3 s.h.	PSYC103 Adol. Dev.	_____	C _____
Sociology/Anthropology/Geography	3 s.h.	_____	_____	_____
C. Natural Sciences (6 s.h.)				
Lab Science	3 s.h.	BIOL106 Prin. Biol. I	_____	C _____
Lab Science	3 s.h.	BIOL107 Prin. Biol. II	_____	C _____

IV. Electives (10 s.h.)

Course	S.H.	When	min Grade
GEOS/PHYS____ Earth & Space Elective	3	_____	C _____
MATH107 Basic Statistics	3	_____	C _____
CHEM220 Organic Chemistry I *	4	_____	C _____

* Students are encouraged to also take CHEM221, Organic Chemistry II in case they choose to pursue an additional Biology degree.

V. Additional Requirements Overlays (May be in combination with other classes taken)

3 Writing Emphasis (WE) Courses	2 Information Literacy (IL) Courses	2 Multicultural (MC) Courses
Principles of Biology II	Student Teaching I	Sociology or Anthropology
Student Teaching I	Student Teaching II	World History
Student Teaching II		

2 External Experience (EE) Units (min 14 hours each). Student Teaching satisfies this requirement.

PROFESSIONAL EDUCATION CLASSES (36 S.H.)
(Minimum of C grade in all these courses)

Course	S.H.	When	min Grade
PSYC103 Adolescent Development (counted as Gen. Ed.)			
SPEC 204 Cognitive Development of Diverse Learners	3	_____	C _____
SPEC 202 Cultural/Linguistic Diversity in Education	3	_____	C _____
SPEC 345 Literacy Instr. for Stud.w/Disabilities	3	_____	C _____
Block I			
SCI 209 Science Methods I	3	_____	C _____
PSYC201 Educational Psychology	3	_____	C _____
Block II			
SCI315 Science Methods II	4	_____	C _____
EDUC312 Classroom Management	2	_____	C _____
SPEC 309 Effect. Inst. Strat. for Stud. w/Disabilities	3	_____	C _____
Student Teaching			
SCI 493 Student Teaching & Practicum I (WE,IL,EE)	6	_____	C _____
SCI 494 Student Teaching & Practicum II (WE,IL,EE)	6	_____	C _____

SCIENCE REQUIREMENTS (41 s.h.)
(Minimum of C grade in all these courses)

Required Science: Supporting Courses (12 s.h.)

Course	s.h.	When	min Grade
CHEM120 Principles of Chemistry I	4	_____	C _____
CHEM121 Principles of Chemistry II	4	_____	C _____
PHYS130 Physics I *	4	_____	C _____

* students are encouraged to also take PHYS131, Physics II in case they choose to pursue an additional Biology degree

Required courses in the Major Field: Biology (29 s.h.)

Course	s.h.	When	min Grade
BIOL202 Genetics	3	_____	C _____
BIOL206 Botany I	3	_____	C _____
BIOL240 Zoology	3	_____	C _____
BIOL309 Ecology	3	_____	C _____
BIOL330 Cell & Molecular Biology	4	_____	C _____
BIOL340 Microbiology	4	_____	C _____
BIOL___ Organismal Physiology (BIOL410) OR Plant Physiology (BIOL300)	3	_____	C _____
BIOL3--/4-- Biology elective	2	_____	C _____
CHEM221/PHYS131/BIOL3--/4--	4	_____	C _____

General education science courses designed for non-science majors do not credit toward the requirements listed above.

Record of Tasks Required for Graduation and Certification

Task	Date Completed
Stage I: To Achieve Official Candidacy into the Teacher Education Program at LHUP	
Achieve overall GPA of 3.0 and GPA of 3.0 in your major (*)	
Complete 48 semester hours of coursework	
Complete 6 credits of English and 6 credits of Math with no grade lower than a C- (Minimum grade may be a “C” in some disciplines)	
Complete an Entrance Essay	
Complete a Diversity Profile Plan with your Program Coordinator (co-advisor)	
Have Communication and Disposition Forms completed for you by (3) general education faculty members	
Obtain Liability Insurance (via membership in a professional association or through personal insurance provider)	
Obtain Act 34 (Criminal Background) and Act 151 (Child Abuse History) Clearances	
Complete a Technology Self-assessment	
Obtain negative TB test (available from Glennon Infirmary)	
Stage II: To Be Permitted to Enroll in Upper Level Education Courses	
Achieve overall GPA of 3.0 and GPA in your major of 2.8 (science and math only)	
Achieve passing scores on the PRAXIS I exams (reading, writing, math)	
Achieve a C- or Better in Speech and History (no grade lower than a “C” is permitted in any required course)	
Maintain Liability Insurance via Membership in a Professional Association	
Maintain Act 34 (Criminal Background) and Act 151 (Child Abuse History) Clearances	
Maintain negative TB test (available from Glennon Infirmary)	
Complete 36 hours of field experiences (Obtained during Block I)	
Complete 20 hours of diversity field experiences (10 hours obtain during Block I, 10 based on individual program requirements)	
Have Communication and Disposition Forms completed for you by (3) program faculty members	
Produce and present a Developing Portfolio	
Stage III: To Be Considered by LHUP for Recommendation for Teacher Certification in PA	
Achieve overall GPA of 3.0 and GPA in your major of 2.8 (science and math only)	
Achieve passing scores on the PRAXIS II exam (content specialty area)	
Achieve a C or Better in all required courses	
Complete an additional 20 Hours of Diversity Field Experience (in either Block II or during student teaching)	
Produce and present a Senior Portfolio	
Produce a Teacher Work Sample in one of your Student Teaching Placements	
Have Communication and Disposition Forms completed for you by (2) Cooperating Teachers and your University Supervisor	
Successfully complete (2) student teaching placements	
Receive passing scores on PDE-430 form for each student teaching placement	

*The major GPA may be lower in high need areas such as science and math. You can achieve candidacy without meeting this requirement. However, one’s timeline for graduation is likely to be considerably longer than 4 years.

You must maintain a minimum of a 3.0 gpa overall and 2.8 in your major courses.

**SUGGESTED COURSE OF STUDY FOR
B.S.E.D. SECONDARY EDUCATION BIOLOGY**

**You may take more courses than suggested, but you must
average 15 s.h. per semester to stay on schedule for graduation
You are responsible for meeting the pre-requisites for all courses.**

SEMESTER	SH	SEMESTER	SH
Fall Freshman Year		Spring Freshman Year	
BIOL106 Principles of Biology I	3	BIOL107 Principles of Biology II	3
CHEM120 Principles of Chemistry I	4	CHEM121 Principles of Chemistry II	4
English Composition	3	PSYC103 Adolescent Development	3
Philosophy	3	MATH141 Calculus	3
Wellness Core	3	Literature	3
	–		–
	16		16
Fall Sophomore Year		Spring Sophomore Year	
BIOL206 Botany I	3	BIOL240 Zoology	3
CHEM220 Organic Chemistry I	4	BIOL202 Genetics	3
MATH107 Statistics	3	World History I or II	3
Sociology or Anthropology	3	Speech	3
SPEC 204 Cog. Dev.of Diverse Learners	3	BLOCK I	
	–	SCI209 Science Methods I	3
	16	PSYC201 Educational Psychology	3
			–
			18
Fall Junior Year		Spring Junior Year	
BIOL309 Ecology	3	BIOL---- Organismal or Plant Physiology	3
BIOL330 Cell & Molecular Biology	4	BIOL3--- Biology Elective	3
BIOL3--- Biology Elective	3	Political Science or Economics	3
Art/Music/Theatre	3	GEOS--- Earth & Space science elective	3
SPEC 202 Cult./Ling. Div. in Edu	3	Art/Music/Theatre	3
	–	SPEC 345 Literacy Instr. Stud.w/Disa.	3
	16		–
			18
Fall Senior Year		Spring Senior Year	
BIOL340 Microbiology	4	SCI493/494 Student Teaching & Practicum	12
PHYS130 Physics I	4		
BLOCK II			
SCI315 Science Methods II	4		
EDUC312 Classroom Management	2		
SPEC 309 Effect. Instr. Strat. Stud. w/Disa.	3		
	–		
	17		

Secondary Educ-Chemistry, BSED

General Education Requirements (42.0 sh)

Wellness	3.0
English Composition	3.0
Mathematics (MATH141 Calculus I is required)	3.0
Speech	3.0
Art/Music/Theatre/Dance	6.0
Philosophy	3.0
Literature	3.0
World History I or II	3.0
Political Science or Economics	3.0
Psychology (PSYC103 Adolescent Development is required)	3.0
Sociology/Anthropology/Geography	3.0
Lab Science (BIOL106 Principles of Biology I is required)	3.0
Lab Science (BIOL106 Principles of Biology II is required)	3.0

General Education Electives (10.0 sh)*

MATH142 Calculus II	3.0
PHYS170 Intermediate General Physics I	4.0

*Must be satisfied in part using Supporting Math and Sciences courses below.

Professional Education Courses (36.0 sh)

SPEC202 Cultural and Linguistic Diversity in Education	3.0
SPEC204 Cognitive Development of Diverse Learners	3.0
SPEC3-- Literacy Instruction Strategies for Students with Disabilities	3.0
SCI209 Science Methods I	3.0
PSYC201 Educational Psychology	3.0
SCI315 Science Methods II	4.0
EDUC312 Classroom Management	2.0
SPEC309 Instructional Strategies for Students with Disabilities in Inclusive Settings	3.0
SCI493 Student Teaching and Practicum I	6.0
SCI494 Student Teaching and Practicum II	6.0

Required Courses in Chemistry (34.0 sh)

CHEM120 Principles of Chemistry I	4.0
CHEM121 Principles of Chemistry II	4.0
CHEM220 Organic Chemistry I	4.0
CHEM221 Organic Chemistry II	4.0
CHEM301 Inorganic Chemistry I	3.0
CHEM316 Quantitative Analysis	4.0
CHEM320 Physical Chemistry I	4.0
CHEM410 Biochemistry	4.0
CHEM3--/4-- Chemistry Elective	3.0

Supporting Math and Science (7.0 sh)

PHYS171 Intermediate General Physics II (May substitute PHYS130, PHYS131, and CHEM321 for PHYS170 and PHYS171)	4.0
GEOS1-- Geoscience Elective (GEOS110 recommended)	3.0

**Requirements for the
Bachelor of Science in Education: Secondary Education in English**
(Students admitted to the Secondary Education-English program in or after Fall 2008 must follow this curriculum. Students who are not eligible for certification before January 1, 2013 are also required to follow this curriculum.)
Revised Fall 2008

Name:

ID#:

Advisor:

General Education Requirements

For a list of courses that meet these requirements, see:

http://www.lhup.edu/academic/acad_affairs/general_education_course_list.htm

Requirement	Course Number/Name	s.h.	Date Completed	Grade
Composition	ENGL 100	3		
Literature*	ENGL 220 World Literature	3		
Philosophy	PHIL	3		
Art/Music		3		
Theater	THEA 110 Theater: An Orientation	3		
Speech		3		
World History	HIST	3		
Gov/Econ		3		
Soc/Anthro/Geog		3		
Psychology	PSYC 103 Adolescent Psychology	3		
Lab Science		3		
Lab Science		3		
Mathematics**	MATH	3		
Mathematics	MATH	3		
Wellness		3		
Elective	ENGL 280 Intro. to the Study of Language	3		
Elective	ENGL 205 Intro. to Literary Study	3		
Elective	ENGL 119 First-Year Seminar	1		
	Total General Education S.H.	52		

*ENGL220 World Literature is required for the Secondary Education/English major

**Suggested math courses are MATH101, MATH107, or MATH110.

General-Education Overlays

Students are also responsible for meeting General Education requirements in Writing Emphasis (WE), Multicultural Emphasis (MC), Information Literacy (IL), and External Experiences (EE). Select courses wisely to meet these requirements. These courses can count as overlays as well as General Education or Major courses.

Overlay	Course Number	Date Completed
MC-1		
MC-2		
WE-1	ENGL206	
WE-2	ENGL312	
WE-3	ENGL415	
IL-1	ENGL206	
IL-2	ENGL312	
EE-1	ENGL493	
EE-2	ENGL494	

Secondary Education Requirements

Sequence	Course Number/Name	s.h.	Date Completed	Grade
Block I	PSYC 201 Educational Psychology	3		
	ENGL 206 English Methods I	3		
Block II	ENGL 312 English Methods II	4		
	EDUC 212 Classroom Management	2		
Student Teaching	ENGL 493 Student Teaching/Practicum	6		
	ENGL 494 Student Teaching/Practicum	6		
Special Education	SPEC202 Cult./Ling. Diversity in Edu	3		
	SPEC204. Cog. Dev. of Diverse Learners	3		
	SPEC345 Literacy Instr. Strat. w/ Disa.	3		
	SPEC309 Effect. Instr. Stud w/ Disa.	3		
	Total Secondary Education S.H.	36		

English Requirements

Requirement	Course Number/Name	s.h.	Date Completed	Grade
Literatures	ENGL 235 Adolescent Literature	3		
	ENGL 230 English Lit. Before 1800	3		
	ENGL 231 English Lit. After 1800	3		
	ENGL 240 American Lit. Before Civil War	3		
	ENGL 242 American Lit. After Civil War	3		
	ENGL 336 Shakespeare	3		
Writing & Language	ENGL 315 Composition Usage & Editing	3		
	ENGL 405 Grammars of English	3		
One of the following: ENGL 354 Business Writing ENGL 264 Fiction Workshop ENGL 266 Drama Workshop ENGL 268 Poetry Workshop ENGL 237 Creative Nonfiction Workshop ENGL 408 Advanced Topics in Creative Writing ENGL 360 Technical Writing		3		
English Electives (8 s.h.) (Any 200-400 ENGL writing course or any 300-400 ENGL literature course)		3		
		3		
		2		
	Total English S.H.	35		
	Total Program S.H.	123		

BACHELOR OF SCIENCE MATHEMATICS: EDUCATION CERTIFICATE

8-18-08

A. PRESCRIBED MAJOR COURSES* (39 s.h.)	WHEN TAKEN	GRADE
COMP160: PROGRAMMING I (3)	_____	_____
MATH141: CALCULUS 1 (3)	_____	_____
MATH142: CALCULUS 2 (3)	_____	_____
MATH205: FOUNDATIONS OF MATHEMATICS (Spring Only) (3)	_____	_____
MATH225: HISTORY OF MATHEMATICS (Fall Only) (3)	_____	_____
MATH243: CALCULUS 3 (3)	_____	_____
MATH302: NUMBER THEORY (Fall Only) (3)	_____	_____
MATH307: FOUNDATIONS OF GEOMETRY (Fall Only) (3)	_____	_____
MATH310: MODERN ALGEBRA I (Spring Only) (3)	_____	_____
MATH311: ELEMENTS OF LINEAR ALGEBRA (Spring Only) (3)	_____	_____
MATH312: PROBABILITY AND STATISTICS (Fall Only) (3)	_____	_____
MATH401: REAL ANALYSIS I (Fall Only) (3)	_____	_____
MATHXXX: Elective 102, 107, 112 or above (3)	_____	_____
B. PROFESSIONAL EDUCATION COURSES* (29 s.h.)		
PSYC103: ADOLESCENT DEVELOPMENT (3)	_____	_____
EDTF101: SOCIAL FOUNDATIONS OF EDUCATION (2)	_____	_____
<u>BLOCK 1:</u> (Spring Only, usually taken the sophomore year)		
MATH200: METHODS OF TEACHING MATH 1 (3)	_____	_____
PSYC201: EDUCATIONAL PSYCHOLOGY (3)	_____	_____
<u>BLOCK 2:</u> (Fall Only, usually taken the semester before student-teaching)		
MATH316: METHODS OF TEACHING MATH 2 (4)	_____	_____
EDUC312: CLASSROOM MANAGEMENT FOR SEC. ED. (2)	_____	_____
Students will take one of the new SPED courses at this time	_____	_____
MATH493 & 494: STUDENT TEACHING AND PRACTICUM (6 each)	_____	_____

Within Major Q.P.A (From categories A AND B): Credit Hours _____ Quality Points _____ Q.P.A.

C. GENERAL EDUCATION & ELECTIVES (52 additional credits)			
WELLNESS (3)	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
ART/MUSIC/THEATRE (6)	_____	_____	_____
	_____	_____	_____
COMPOSITION (3)	_____	_____	_____
LITERATURE (3)	_____	_____	_____
PHILOSOPHY (3)	_____	_____	_____
SPEECH (3)	_____	_____	_____
WORLD HISTORY (3)	_____	_____	_____
GOVERNMENT OR ECONOMICS (3)	_____	_____	_____
SOCIOLOGY OR ANTHROPOLOGY (3)	_____	_____	_____
LABORATORY SCIENCE (6)	_____	_____	_____
	_____	_____	_____
ELECTIVES (16)			
	<u>SPED2XX: Cognitive Development of Diverse Learners (3)</u>	_____	_____
	<u>SPED2XX: Cultural/Linguistic Diversity in Education (3)</u>	_____	_____
	<u>SPED3XX: Literacy Instruction for Students with Disabilities (3)</u>	_____	_____
	<u>SPED3XX: Effective Instructional Strategies for Students with Disabilities (3)</u>	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

*Must earn a C or better in each course.

TOTAL CREDITS EARNED

OVERALL Q.P.A.

B.S. Ed. Secondary Education, Physics

Lock Haven University of Pennsylvania
REQUIREMENTS / ADVISING SHEET – 129 credits

Name _____ Entry Date _____ Student ID _____

A. General Education

		sh	Course	Date	min	Grade
I. Wellness		3 sh			C-	
II. Skills	English Composition	3 sh	<u>ENGL100-Composition</u>			
	Mathematics	3 sh	<u>Math141-Calculus I</u>		C	
	Speech	3 sh			C-	
III. Content						
A. Humanities	Art/Music/Theater/Dance	6 sh				
	Literature	3 sh				
	Philosophy	3 sh				
B. Social Sciences	World History	3 sh			C-	
	Poli Sci or Economics	3 sh				
	Psychology	3 sh	<u>PSYC103-Adol. Devel.</u>		C	
	Sociology, Anthropol. Or Geography	3 sh				
C. Natural Sciences		6 sh	<u>BIOL106-Prin of Bio I</u>		C	
			<u>GEOS1xx*</u>		C	

*Additional courses needed for General Science Certificate: GEOS110-Physical Geology, PHYS 135-Meteorology, GEOS120-Oceanography, PHYS 140-Astronomy of the Solar System, GEOS210-Historical Geology

IV. Electives**

10 sh

Course	Date	Grade
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**Must be satisfied using Physics electives shown in section C below.

V. Additional Overlay Requirements

	Course	Course	Course
A. Multicultural (MC) 2 courses	<u>Sociology or Anthropology and World History</u>		
B. Information Literacy (IL) 2 courses	<u>SCI493</u>	<u>SCI494</u>	
C. Writing Emphasis (WE) 3 courses	<u>SCI493</u>	<u>SCI494</u>	<u>PHYS171</u>
D. External Experience (EE) 2 units	Fulfilled by Student Teaching and Practicum, SCI 493/494		

B. Professional Education

36 sh

	Course	sh	Date	min	Grade
	SPEC 204 Cognitive Development of Diverse Learners	3 sh	_____	C	_____
	SPEC 202 Cultural/Linguistic Diversity in Education	3 sh	_____	C	_____
	SPEC 345 Literacy Instr. for Stud.w/Disabilities	3 sh	_____	C	_____
	SPEC 309 Effect. Inst. Strat. for Stud. w/Disabilities	3 sh	_____	C	_____
Block I	SCI209 Science Methods I	3 sh	_____	C	_____
	PSYC201 Educational Psychology	3 sh	_____	C	_____
Block II	SCI315 Science Methods II	4 sh	_____	C	_____
	EDUC312 Classroom Management	2 sh	_____	C	_____
Student Teaching	SCI493 Std. Teaching & Practicum I (IL, WE, EE)	6 sh	_____	C	_____
	SCI494 Std. Teaching & Practicum II (IL, WE, EE)	6 sh	_____	C	_____

B.S. Ed. Secondary Education, Physics
 Lock Haven University of Pennsylvania
REQUIREMENTS / ADVISING SHEET – 129 credits

C. Area of Specialization - Supporting Science and Math Courses 41 sh

I. Supporting Math and Science	sh	Date	minGrade
CHEM120-Principles of Chemistry I	4 sh	_____	C_____
CHEM121-Principles of Chemistry II	4 sh	_____	C_____
BIOL107-Principles of Biology II	3 sh	_____	C_____
MATH142-Calculus II	3 sh	_____	C_____
MATH243-Calculus III	3 sh	_____	C_____
MATH301-Differential Equations	3 sh	_____	C_____
II. Physics			
PHYS170-Intermediate General Physics I (WE)	4 sh	_____	C_____
PHYS171-Intermediate General Physics II (WE)	4 sh	_____	C_____
PHYS250-Heat	3 sh	_____	C_____
PHYS290-Electronics	4 sh	_____	C_____
PHYS310-Laboratory Development and Supervision	1 sh	_____	C_____
PHYS315-Modern Physics (WE)	4 sh	_____	C_____
PHYS325-Optics	4 sh	_____	C_____
PHYS330-Mechanics I	3 sh	_____	C_____

Physics Elective Courses (200+ level) totaling 4 semester hours (counted as Gen Ed electives)

Recommended Choices:

PHYS331-Mechanics II	(3 sh)	_____	C_____
PHYS350-Quantum Mechanics	(3 sh)	_____	C_____
PHYS370-Electricity & Magnetism	(3 sh)	_____	C_____
PHYS371-Electrodynamics	(3 sh)	_____	C_____

B.S. Ed. Secondary Education, Physics
 Lock Haven University of Pennsylvania
REQUIREMENTS / ADVISING SHEET – 129 credits

Record of Tasks Required for Graduation and Certification

Task	Date Completed
Stage I: To Achieve Official Candidacy into the Teacher Education Program at LHUP	
Achieve overall GPA of 3.0 and GPA of 3.0 in your major (*)	
Complete 48 semester hours of coursework	
Complete 6 credits of English and 6 credits of Math with no grade lower than a C- (Minimum grade may be a “C” in some disciplines)	
Complete an Entrance Essay	
Complete a Diversity Profile Plan with your Program Coordinator (co-advisor)	
Have Communication and Disposition Forms completed for you by (3) general education faculty members	
Obtain Liability Insurance (via membership in a professional association or through personal insurance provider)	
Obtain Act 34 (Criminal Background) and Act 151 (Child Abuse History) Clearances	
Complete a Technology Self-assessment	
Obtain negative TB test (available from Glennon Infirmary)	
Stage II: To Be Permitted to Enroll in Upper Level Education Courses	
Achieve overall GPA of 3.0 and GPA in your major of 2.8 (science and math only)	
Achieve passing scores on the PRAXIS I exams (reading, writing, math)	
Achieve a C- or Better in Speech and History (no grade lower than a “C” is permitted in any required course)	
Maintain Liability Insurance via Membership in a Professional Association	
Maintain Act 34 (Criminal Background) and Act 151 (Child Abuse History) Clearances	
Maintain negative TB test (available from Glennon Infirmary)	
Complete 36 hours of field experiences (Obtained during Block I)	
Complete 20 hours of diversity field experiences (10 hours obtain during Block I, 10 based on individual program requirements)	
Have Communication and Disposition Forms completed for you by (3) program faculty members	
Produce and present a Developing Portfolio	
Stage III: To Be Considered by LHUP for Recommendation for Teacher Certification in PA	
Achieve overall GPA of 3.0 and GPA in your major of 2.8 (science and math only)	
Achieve passing scores on the PRAXIS II exam (content specialty area)	
Achieve a C or Better in all required courses	
Complete an additional 20 Hours of Diversity Field Experience (in either Block II or during student teaching)	
Produce and present a Senior Portfolio	
Produce a Teacher Work Sample in one of your Student Teaching Placements	
Have Communication and Disposition Forms completed for you by (2) Cooperating Teachers and your University Supervisor	
Successfully complete (2) student teaching placements	
Receive passing scores on PDE-430 form for each student teaching placement	

*The major GPA may be lower in high need areas such as science and math. You can achieve candidacy without meeting this requirement. However, one’s timeline for graduation is likely to be considerably longer than 4 years.

**SUGGESTED COURSE OF STUDY FOR
B.S. Ed. Secondary Education, Physics**

Freshman - 1 st Year--Fall			Freshman - 1 st Year--Spring		
CHEM120	Principles of Chemistry I	4 sh	CHEM121	Principles of Chemistry II	4 sh
	World History I or II	3 sh	PHYS 170	Intermediate Physics I	4 sh
ENGL100	English Composition	3 sh	MATH141	Calculus I	3 sh
	Philosophy	3 sh	ENGL 110	Dimensions of Literature	3 sh
	Wellness	3 sh	PSYC103	Adolescent Development	3 sh
	Total	16 sh		Total	17 sh
Sophomore - 2 nd Year--Fall			Sophomore - 2 nd Year --Spring		
BIOL106	Principles of Biology I	3 sh	PHYS 330	Mechanics I	3 sh
PHYS 171	Intermediate Physics II	4 sh	MATH243	Calc III	3 sh
SPEC 204	Cog. Dev.of Diverse Learners	3 sh	PHYS 290	Electronics	4 sh
	Sociology or Anthropology	3 sh		<u>Secondary Block I</u>	
MATH142	Calculus II	3 sh	SCI 209	Science Methods I	3 sh
			PSYC201	Educational Psychology	3 sh
	Total	16 sh		Total	16 sh
Junior – 3 rd Year--Fall			Junior – 3 rd Year --Spring		
PHYS 315	Modern Physics	4 sh	PHYS 325	Optics	4 sh
MATH 301	Differential Equations	3 sh	PHYS 250	Heat	3 sh
PHYS 370	Elec. & Mag. I	3 sh	PHYS 310	Lab Development & Supervision	1 sh
	Art/Music/Theatre	3 sh			
SPEC 202	Cult./Ling. Div. in Edu	3 sh	BIOL107	Principles of Biology II	3 sh
				Political Science or Economics	3 sh
	Total	17 sh	SPEC 345	Literacy Instr. Stud.w/Disa.	3 sh
				Total	17 sh
Senior – 4 th Year--Fall			Senior – 4 th Year--Spring		
PHYS	Physics Elective	3 sh	SCI 493	Student Teach/Practicum I (EE)	6 sh
GEOS	Geoscience Elective	3 sh	SCI 494	Student Teach/Practicum II (EE)	6 sh
	Art/Music/Theatre	3sh		Speech (or other Gen Ed not yet taken)	3 sh
	<u>Secondary Block II</u>				
SCI315	Science Methods II	4 sh			
EDUC212	Classroom Management	2 sh			
SPEC 309	Effect. Instr. Strat. Stud. w/Disa.	3 sh			
	Total	18 sh		Total	15 sh

**SECONDARY SOCIAL STUDIES CERTIFICATION (BSED)
REQUIREMENTS
LOCK HAVEN UNIVERSITY OF PENNSYLVANIA**

Name: _____ Advisor: _____ ID# _____

Required Total Number of Credit Hours for Graduation = 123

GENERAL EDUCATION: REQUIRED (TOTAL = 27 S.H.)

CURRICULUM AREA	COURSE NUMBER/ COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS	DATE COMPLETED
Composition		C-	IL	3 s.h.	
Philosophy		C-		3 s.h.	
Speech		C-		3 s.h.	
Literature		C-		3 s.h.	
Art/Music/Theater		C-		3 s.h.	
Art/Music/Theater		C-		3 sh.	
Wellness		C-		3 s.h.	
Lab Science	BIOL 102, CHEM101 or GEOS101 recommended	C-		3 s.h.	
Mathematics	<i>Not MATH 107</i>	C-		3 s.h.	
Lab Science-SCI 110	absorbed in prof. ed. courses	C		3 s.h.	
Psychology-PSYC 103	absorbed in prof. ed. courses	C		3 s.h.	
Sociology/Anthropology	absorbed in major	C		3 s.h.	
World History	absorbed in major	C		3 s.h.	
Geog./Econ./Pol.Sci.	absorbed in major	C		3 s.h.	

REQUIRED PROFESSIONAL EDUCATION (TOTAL = 21 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS	DATE COMPLETED
SCI110: Science, Technology & Society (Spring Frsh. yr)	C		3 s.h.	
PSYC103: Adolescent Development (Fall Frsh. Yr)	C		3 s.h.	
MATH107: Statistics (prior to Spring Soph. yr)	C		3 s.h.	
SPEC202: Cultural and Linguistic Diversity in Education (Fall Jr. yr)	C		3 s.h.	
SPEC204: Cognitive Development of Diverse Learners (Fall Soph. yr)	C		3 s.h.	
SPEC309: Effective Instruction Strategies for Students with Disabilities (Fall Sr. yr)	C		3 s.h.	
SPEC 345: Literacy Instruction for Students with Disabilities (Spring Jr. yr)	C		3 s.h.	

REQUIRED SOCIAL STUDIES EDUCATION CONTENT COURSES (TOTAL = 51 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS	DATE COMPLETED
HIST111: Global History I	C	WE, MC	3 s.h.	
HIST112: Global History II	C	WE, MC	3 s.h.	
HIST200: Historical Thinking & Writing	C	WE, IL	3 sh.	
HIST201: U.S. History I	C		3 s.h.	
HIST202: U.S. History II	C		3 s.h.	
HIST (3—or4--) Non West Elective	C		3 s.h.	

HIST (3—or4--) Non West Elective	C		3 s.h.	
HIST (3—or4--) Europe Elective	C		3 s.h.	
HIST (3—or4--) U.S. Elective	C		3 s.h.	
POLI105: American National Government	C		3 s.h.	
POLI107: World Politics	C		3 s.h.	
ECON101: Principles of Economics	C		3 s.h.	
ECON--: Elective	C		3 s.h.	
GEOG260: World Regional Geography	C		3 s.h.	
GEOG--: Elective	C		3 s.h.	
SOCI101: Introduction to Sociology	C	MC	3 s.h.	
ANTH (3—or4--): Elective	C	MC	3 sh.	

SOCIAL STUDIES' BLOCKS I & II (Total 12 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS	DATE COMPLETED
Block I: SSED210: Methods of Teaching Social Studies (Spring Soph. yr)	C		3 s.h.	
Block I: PSYC201: Educational Psychology (w/SSED 210)	C		3 s.h.	
Block II: SSED316: Methods for Teaching Social Studies II	C		4 s.h.	
Block II: EDUC 3xx: Classroom Management	C		2 s.h.	

STUDENT TEACHING (Total 12 S.H.) – SEMESTER COMPLETED

SSED 493 Student Teaching and Practicum	C	EE, WE, IL	6 s.h.
SSED 494 Student Teaching and Practicum	C	EE, WE, IL	6 s.h.

ADDITIONAL COURSEWORK (OPTIONAL) OR MINOR

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	SEMESTER HOURS	DATE COMPLETED

ADVISEMENT NOTES

3.0 Overall GPA, 45 credits, passing PPST Praxis I scores, Diversity Profile Plan, clearances and TB tests required to achieve *Advanced Standing* (to enroll in SSED 210 & PSYC 201). Must maintain 3.0 (Overall and Major) GPA, clearances and TB test to conclusion of program.
 Candidacy, liability insurance, and Major/Overall GPA 3.0 required for SSED316 and EDUC3xx
 Overlays required: 2 Information Literacy
 3 Writing Emphasis
 2 Multicultural
 2 External Experience

Lock Haven University of Pennsylvania
Course Sequence for Social Work
Bachelor of Science Degree
(Declared Fall 2010)

First Year			
Fall		Spring	
SOCW 102	Introduction to Social Work	SOCW 110	Diverse Populations
BIOL 101	Basic Biology	ENGL 110	Introduction to Literature
ENGL 100	Composition	HIST ---	World History 1 or 2
PSYC 100	Introduction to Psychological Science	---	Lab Science
SOCI 101	Introduction to Sociology	MATH 107	Basic Statistics *
Second Year			
Fall		Spring	
SOCW 201	Human Behavior in the Social Environment 1	SOCW 203	Human Behavior in the Social Environment 2
PHIL ---	Philosophy	SOCW 301	Practice 1
POLI/ECON ---	Political Science/Economics	CISC 150	Introduction to Computers
---	Wellness	---	Marginalized/Oppressed Populations Course
---	Art/Music/Theatre/Dance	---	Social & Economic Justice Course
Third Year			
Fall		Spring	
SOCW 302	Practice 2	SOCW 404	Rural Social Work
SOCW 412	Applied Social Research	SOCW 425	Social Policy and Services
SPCH ---	Speech	SOCW ---	Social Work Elective
---	Social & Economic Justice Course	---	Advocacy Course
---	Advocacy Course	---	Art/Music/Theatre/Dance
Fourth Year			
Fall or Spring			
---	Social Work Elective	SOCW 401	Field Practicum I
---	General Education Elective	SOCW 402	Field Practicum II
---	General Education Elective	SOCW 420	Field Placement Seminar
---	General Education Elective	SOCW 310	Social Policy and Practice

*Math 107 – Basic Statistics must be taken to meet the mathematics requirements. If Math 100 is taken, this can be used as a general education requirement. Students should plan to take the math placement test to enroll in the appropriate math course.

**Lock Haven University of Pennsylvania
Bachelor of Science Degree in Social Work
(Declared Fall 2010)**

General Education	Course	Credits
English Composition	_____	_____
Literature	_____	_____
Art/Music/Theatre/Dance	_____	_____
Art/Music/Theatre/Dance	_____	_____
World History 1 or 2	_____	_____
Introduction to Sociology	_____	_____
Psychology	_____	_____
Philosophy	_____	_____
Math 107 - Basic Statistics	_____	_____
Wellness	_____	_____
Political Science/Economics	_____	_____
Speech	_____	_____
Basic Biology	_____	_____
Laboratory Science	_____	_____
General Education Elective	_____	_____
General Education Elective	_____	_____
General Education Elective	_____	_____

General Education Overlays

Multicultural (MC)	1. <u>Diverse Populations</u>	2. <u>Introduction to Sociology</u>
Writing Emphasis (WE)	1. <u>Practice 1</u>	2. <u>Applied Social Research</u>
	3. <u>Practice 2</u>	
Information Literacy (IL)	1. <u>Applied Social Research</u>	2. <u>English Composition</u>
External Experience (EE)	1. <u>Field Practicum</u>	2. <u>Field Practicum</u>

BACHELOR OF SCIENCE IN SOCIOLOGY

GENERAL EDUCATION REQUIREMENTS

<u>Course</u>	<u>Sem/YR</u>	<u>AR</u>	<u>Grade</u>
---------------	---------------	-----------	--------------

HUMANITIES – 18 sh

<u>Art/Music/Theater/Dance</u>		(6 sh)	
_____	_____	_____	_____
_____	_____	_____	_____

<u>English Composition</u>		(3 sh)	
_____	_____	_____	_____

<u>Literature</u>		(3 sh)	
_____	_____	_____	_____

<u>Philosophy</u>		(3 sh)	
_____	_____	_____	_____

<u>Speech</u>		(3 sh)	
_____	_____	_____	_____

ELECTIVES – 9 sh

_____	_____	_____	_____
_____	_____	_____	_____

SOCIAL/BEHAVIORAL SCIENCES – 12 sh

<u>Intro to Sociology</u>		(3 sh)	
<u>_SOC101_</u>	_____	_____	_____

<u>Political Science or Economics</u>		(3 sh)	
_____	_____	_____	_____

<u>Psychology</u>		(3 sh)	
<u>_PSYC100_</u>	_____	_____	_____

<u>World History</u>		(3 sh)	
_____	_____	_____	_____

NATURAL SCIENCE & MATHEMATICS - 9 sh

<u>Lab Science</u>		(6 sh)	
_____	_____	_____	_____

<u>Intro to Statistics</u>		(3 sh)	
_____	_____	_____	_____

HEALTH & PHYSICAL EDUCATION – 3 sh

_____	_____	_____	_____
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SEMINARS – 9 s.h.

<u>Humanities</u>		(3 sh)	
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<u>Natural Science/Math</u>		(3 sh)	
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<u>Social Science/History</u>		(3 sh)	
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General Education Requirements

Humanities	18 sh
Social & Behavioral Science	12 sh
Natural Science & Math	9 sh
Health & Physical Education	3 sh
General Education Electives	10 sh
Seminars	9 sh
Total	60 sh

MAJOR REQUIREMENTS

<u>Course</u>	<u>Sem/YR</u>	<u>AR</u>	<u>Grade</u>
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CORE REQUIREMENTS – 21 sh

SOCI203 Social Problems	_____	_____	_____
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SOCI205 Racial & Ethnic Relations	_____	_____	_____
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SOCI206 Marriage & Family	_____	_____	_____
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SOCI301 Juvenile Delinquency or	_____	_____	_____
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SOCI302 Criminology	_____	_____	_____
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SOCI352 Sociological Theory	_____	_____	_____
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SOCI354 Social Change	_____	_____	_____
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SOCI404 Sociological Research	_____	_____	_____
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SOCIAL SCIENCE AREA – 21 sh

ANTHXXX(any Anthropology Course)	_____	_____	_____
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ANTHXXX(any Anthropology Course)	_____	_____	_____
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ECON* - Economics or POLI - Political Science	_____	_____	_____
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(*whichever was not taken in General Education	_____	_____	_____
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EDTF300 Educational Technology	_____	_____	_____
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GEOGXXX (any Geography Course)	_____	_____	_____
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GEOG440 Economic Geography	_____	_____	_____
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SOCWXXX (any Social Work Course)	_____	_____	_____
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ELECTIVES – 18 sh

SOCI300 Sociology of Deviance	_____	_____	_____
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SOCI301* Juvenile Delinquency or	_____	_____	_____
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SOCI302* Criminology	_____	_____	_____
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(*whichever was not taken as a core requirement)	_____	_____	_____
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CRJS305 Corrections	_____	_____	_____
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SOCI328 Social Science Seminar	_____	_____	_____
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SOCI328 Changing Male/Female Roles	_____	_____	_____
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SOCI328 Seminar on Sociology of Religion	_____	_____	_____
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SOCI328 Seminar on Modernization	_____	_____	_____
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SOCI328 Issues in Health Care	_____	_____	_____
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ANTH330/SOCI330 Japanese Culture & Society	_____	_____	_____
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SOCI351 Urban-Rural Patterns	_____	_____	_____
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SOCI/SOCW 360 Death & Dying	_____	_____	_____
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SOCI369 Internship	_____	_____	_____
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SOCI402 Industrial Sociology	_____	_____	_____
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SOCI403 Social Gerontology: The Sociology of Aging	_____	_____	_____
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SOCI499 Independent Study	_____	_____	_____
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SOCI410 Sociology of Organizations	_____	_____	_____
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Up to 12 sh of Foreign Languages	_____	_____	_____
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Other approved courses	_____	_____	_____
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Major Requirements

Core Requirements in Sociology	21 sh
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Social Science Area	21 sh
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Electives in Sociology	18 sh
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Total	60 sh
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General Education	60 sh
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TOTAL REQUIREMENTS	120 SH
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B.S. in Sociology: Delinquent Youth Analysis Concentration

General Education Requirements

<u>Course</u>	<u>Semester</u>	<u>Credits</u>	<u>Grade</u>
Humanities 18 sh			
Art/Music/Theatre/Dance		(6 sh)	
_____	_____	_____	_____
_____	_____	_____	_____
English Composition		(3 sh)	
_____	_____	_____	_____
Literature		(3 sh)	
_____	_____	_____	_____
Philosophy		(3 sh)	
_____	_____	_____	_____
Speech		(3 sh)	
_____	_____	_____	_____
GE Electives 9 sh			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Social & Behavioral Sciences 12 sh			
Introduction to Sociology		(3 sh)	
_____	_____	_____	_____
__SOC1 101_____	_____	_____	_____
Political Science or Economics		(3 sh)	
_____	_____	_____	_____
Psychology		(3 sh)	
_____	_____	_____	_____
World History		(3 sh)	
_____	_____	_____	_____
Natural Science & Mathematics 9 sh			
Lab Sciences		(6 sh)	
_____	_____	_____	_____
_____	_____	_____	_____
Basic Statistics		(3 sh)	
_____	_____	_____	_____
__Math 107_____	_____	_____	_____
Health & Physical Education 3 sh			
_____	_____	_____	_____
Seminars 9 sh			
<u>Humanities</u>	_____	_____	_____
<u>Natural Science/Math</u>	_____	_____	_____
<u>Social Science/History</u>	_____	_____	_____

Major Requirements

<u>Course</u>	<u>Semester</u>	<u>Credits</u>	<u>Grade</u>
Core Requirements 21 sh			
SOCI203 Social Problems	_____	_____	_____
SOCI205 Racial & Ethnic Relations	_____	_____	_____
SOCI206 Marriage and Family	_____	_____	_____
SOCI301 Juvenile Delinquency or			
SOCI302 Criminology*	_____	_____	_____
SOCI352 Sociological Theory	_____	_____	_____
SOCI354 Social Change	_____	_____	_____
SOCI404 Sociological Research	_____	_____	_____
Social Science Area 6 sh			
ANTH101 or ANTH102	_____	_____	_____
EDTF 300 Educational Technology	_____	_____	_____
Concentration 15 sh			
SOCI301 Juvenile Delinquency or			
SOCI302 Criminology	_____	_____	_____
(which ever not taken as core requirement)			
SOCI300 Deviance	_____	_____	_____
PSYC103 Adolescent Psychology	_____	_____	_____
CRJS102 Intro to Criminal Justice	_____	_____	_____
CRJS205, HLTH320, PSYC322			
(one of the above)	_____	_____	_____
(* required for concentration)			
Electives 18 sh			
CRJS305 Corrections	_____	_____	_____
SOCI328 Social Science Seminar	_____	_____	_____
ANTH/SOCI330 Japanese Culture	_____	_____	_____
SOCI351 Urban & Rural Patterns	_____	_____	_____
SOCI/SOCW360 Death & Dying	_____	_____	_____
SOCI369 Internship	_____	_____	_____
SOCI402 Industrial Sociology	_____	_____	_____
SOCI410 Sociology of Organizations	_____	_____	_____
SOCI499 Independent Study	_____	_____	_____
SOCW110 Diverse Populations	_____	_____	_____
SOCW415 Child Welfare	_____	_____	_____
Other approved course	_____	_____	_____
Up to 12sh of Foreign Languages	_____	_____	_____
Major Requirements			
Core Requirements in Sociology			21 sh
Social Science Area Requirements			6 sh
Concentration Requirements			15 sh
Electives in Sociology			<u>18 sh</u>
			60 sh
General Education			
			60 sh
Total B.S. Degree Requirements			
			120 sh

B.S. in Sociology: Global Diversity Concentration

General Education Requirements

<u>Course</u>	<u>Semester</u>	<u>Credits</u>	<u>Grade</u>
Humanities 18 sh			
Art/Music/Theatre/Dance		(6 sh)	
_____	_____	_____	_____
_____	_____	_____	_____
English Composition		(3 sh)	
_____	_____	_____	_____
Literature		(3 sh)	
_____	_____	_____	_____
Philosophy		(3 sh)	
_____	_____	_____	_____
Speech		(3 sh)	
_____	_____	_____	_____
GE Electives 9 sh			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Social & Behavioral Sciences 12 sh			
Introduction to Sociology		(3 sh)	
__SOC110__	_____	_____	_____
Political Science/Economics		(3 sh)	
_____	_____	_____	_____
Psychology		(3 sh)	
__PSYC100__	_____	_____	_____
World History		(3 sh)	
_____	_____	_____	_____
Natural Science & Mathematics 9 sh			
Lab Sciences		(6 sh)	
_____	_____	_____	_____
_____	_____	_____	_____
Basic Statistics		(3 sh)	
__Math 107__	_____	_____	_____
Health & Physical Education 3 sh			
_____	_____	_____	_____
Seminars 9 sh			
Humanities			
Natural Science/Math			
Social Science/History			
_____	_____	_____	_____
Total General Education	60 sh		
Total B.S. Degree Requirements		120 sh	

Major Requirements

<u>Course</u>	<u>Semester</u>	<u>Credits</u>	<u>Grade</u>
Core Requirements 21 sh			
SOCI203 Social Problems			
SOCI205 Racial & Ethnic Relations*			
SOCI206 Marriage and Family			
SOCI301 Juvenile Delinquency or			
SOCI302 Criminology			
SOCI352 Sociological Theory			
SOCI354 Social Change			
SOCI404 Sociological Research			
Social Science Area 15 sh			
ANTH101 or ANTH102			
ECONXXX or POLIXXX			
(whichever was not taken in GE)			
EDTF 300 Educational Technology			
GEOG212 Geography of the			
Developing World or GEOG260			
World Regional Geography*			
SOCWXXX Any SW course*			
Concentration 9 sh			
SOCI330 Japanese Culture & Society			
or SOCI328 Seminar: Changing			
Male and Female Roles			
SOCI 351 Urban-Rural Patterns			
ANTH422 Anthro of Latin America			
or ANTH424 Anthro of Middle East			
(* required for concentration)			
Electives 15 sh			
SOCW110 Diverse Populations			
SOCI300 Sociology of Deviance			
SOCI301 Juvenile Delinquency or			
SOCI302 Criminology			
(whichever not taken as core requirement)			
SOCI328 Social Science Seminar			
(any SOCI Seminars)			
SOCI/SOCW360 Death & Dying			
SOCI369 Internship			
SOCI402 Industrial Sociology			
SOCI403 Social Gerontology			
SOCI410 Sociology of Organizations			
SOCI499 Independent Study			
Up to 12sh of Foreign Language			
Other approved courses			
Major Requirements			
Core Requirements in Sociology		21 sh	
Social Science Area Requirements		15 sh	
Concentration Requirements		9 sh	
Electives in Sociology		<u>15 sh</u>	
		60 sh	

**SPECIAL EDUCATION MAJOR
REQUIREMENTS FOR COMMUNITY SERVICES TRACK
LOCK HAVEN UNIVERSITY OF PENNSYLVANIA**

Name: _____

Advisor: _____

Required Total Number of Credit Hours for Graduation = 120

GENERAL EDUCATION: REQUIRED (TOTAL = 42 S.H.)

CURRICULUM AREA	COURSE NUMBER/ COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
Composition		C		3 s.h.
Philosophy				3 s.h.
Speech	COMM 103 Recommended	C		3 s.h.
Literature				3 s.h.
Art/Music/Theater/Dance				3 s.h.
Art/Music/Theater/Dance				3 s.h.
Lab Science				3 s.h.
Lab Science				3 s.h.
Mathematics				3 s.h.
Psychology				3 s.h.
Soc./Anth./Soc.W./ Geog.	SOCW 110 Recommended			3 s.h.
World History				3 s.h.
Govt./Econ./Pol.Sci.				3 s.h.
Wellness				3 s.h.

REQUIRED SPECIAL EDUCATION COURSES (Total 30 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
SPEC 105 Foundations of Special Education	C		3 s.h.
SPEC 202 Cultural and Linguistic Diversity	C		3 s.h.
SPEC 215 High Incidence Disabilities Support	C		3 s.h.
SPEC 212 Low Incidence Disabilities Support	C		3 s.h.
SPEC 338 Positive Behavior Support	C		3 s.h.
SPEC 300 Communication Disorders and Assistive Technology	C		3 s.h.
SPEC 345 Literacy Skills for Students with Disabilities	C		3 s.h.
SPEC 330 Physical Education and Recreation for the Disabled	C		3 s.h.
SPEC 310 Manual Communication and Signing	C		3 s.h.
SPEC 325 Infant/Preschool Special Needs	C		3 s.h.

Social Work Required Courses (Total 15 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
SOCW 102 Introduction to Social Work	C		3 s.h.
SOCW 201 Human Behavior in the Social Environment 1	C		3 s.h.
SOCW 203 Human Behavior in the Social Environment 2	C		3 s.h.
SOCW 4xx Social Work Elective	C		3 s.h.
SOCW 4xx Social Work Elective	C		3 s.h.

Required Professional Courses (Total 6 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
EDTF 300 Educational Technology for Spec. Disciplines	C		3 s.h.
COMM 320 Business Communication	C		3 s.h.

Free Electives (Total 15 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
			3 s.h.
			3 s.h.
			3 s.h.
			3 s.h.
			3 s.h.

Community Service Agency Field Experience (Total 12 S.H.)

COURSE NUMBER/COURSE NAME	MINIMUM GRADE REQUIRED	OVERLAYS	SEMESTER HOURS
SPEC 4xx Community Service Agency Based Field Experience	B		12 s.h.

ADVISEMENT NOTES

- Clearances are required every year, and must be obtained before beginning field experience hours.
- TB tests are required every two years
- Overlays required:
 - 2 Information Literacy
 - 3 Writing Emphasis
 - 2 Multicultural
 - 2 External Experience

SPORT ADMINISTRATION MAJOR REQUIREMENTS*

Session/ Year	GENERAL EDUCATION	(42 credits)	Session /Year	SPORT ADMINISTRATION	(66 credits)
	Humanities	(18 credits)		Behavioral Dimensions of Sport	(6 credits)
	Art/Music/Theatre/Dance (3)	_____		SPRT 208 Intro to Sport & Ex Psych (3)	_____
	Art/Music/Theatre/Dance (3)	_____		OR	
	Literature (3)	_____		SPRT 305 Psych of Coaching (3)	_____
	Philosophy (3)	_____		SPRT 323 Sport and Society MC (3)	_____
	Composition (3)	_____			
	Speech (3)	_____		Management and Organization	(18 credits)
				SPRT 106 Intro to Sport Admin (3)	_____
	Natural Sciences/Math	(9 credits)		SPRT 321 Sport Leadership & Mgmt (3)	_____
	Lab Sciences (3)	_____		SPRT 335 Sport Admin & Comm Rel (3)	_____
	Lab Sciences (3)	_____		SPRT 401 Sport Facility Mgmt/Op (3)	_____
	Math (3)	_____		SPRT 465 O & A WE/IL (3)	_____
				CISC 150 Intro to Computers (3)	_____
	History/Social Sciences	(12 credits)			
	World History MC (3)	_____		Ethics Legal Concerns and Governance	(9 credits)
	Government/Economics (3)	_____		SPRT 223 Cont Issues/Prob in SA (3)	_____
	Psychology (3)	_____		SPRT 324 Sport Law & Ethics WE (3)	_____
	Sociology/Anthropology/ Social Work/Geography (3)	_____		SPRT 337 Governance of Sport (3)	_____
				Economics, Finance, and Marketing	(12 credits)
	Wellness	(3 credits)		SPPRT 233: Sales, Spons, Fndraising (3)	_____
	HPED 060 Well for Life (3)	_____		SPRT 332: Sport Marketing Mgmt (3)	_____
				SPRT 402 Sport Business Finance (3)	_____
				ACCT 110 Financial Accounting (3)	_____
General Education Overlays					
Information Literacy (IL)	SPRT 465	EDTF 300			
Writing Emphasis (WE)	SPRT 324	SPRT 465		Communication in Sport	(9 credits)
Multi-Cultural (MC)	SPRT 323	HIST101 or HIST102		A. Required Courses	(6 credits)
External Experience (EE)	SPRT 450			SPRT 340 Sport Media Comm Rel (3)	_____
				EDTF 300 Edu Tech for Spec Disc IL (3)	_____
FREE ELECTIVES	(12 credits)			B. Electives	(3 credits)
				COMM 103 Small Group Comm (3)	_____
				COMM 104 Interpersonal Comm WE (3)	_____
				PSYC 235 Int Skills & Ldership WE (3)	_____
				ENGL 258 Business Writing WE (3)	_____
				JOUR 190 News Writing WE (3)	_____
				JOUR 290 News Reporting WE (3)	_____
				JOUR 295 Brdcast Jounl Radio WE (3)	_____
				JOUR 391 Sports Writing WE (3)	_____
				Internship in Sport Administration	(12 credits)
				SPRT 450 Field Experience EE (12)	_____

*Sport Administration – 120 required credits

*Must have “C” grades in all major required courses and elective courses in each category.

*Must have a 2.0 in the major and overall.

*Must have a 2.25 to transfer into Sport Administration.

*Similar courses may be accepted as elective credits with approval of advisor and department chair.

Minors in Sport and Exercise Psychology, Coaching, Aquatics, and Business may be completed with only a few additional courses.

Note: Classes below are 3 credits (3 sh) unless otherwise noted.

<p>Sport and Exercise Psychology Minor (18 credits)</p> <p>Required Core Courses (total of 6 credits)</p> <p>SPRT 208: Intro to Sport and Exercise Psychology SPRT 318: Adv Theory and App of Sport and Ex Psych</p> <p>A minimum of 3 but no more than 6 credits in each of the following three content areas for a total of 12 credits</p> <p>A. Psychological and Social Aspects of Sport and Exercise HPED 204: Psychological and Sociological Dimensions of Physical Activity and Sport SPRT 305: Psychology of Coaching SPRT 323: Sport and Society</p> <p>B. Exercise Science HLTH 305: Introduction to Biomechanics HLTH 353: Physiology of Exercise HPED 352: Kinesiology</p> <p>C. Psychology PSYC 202: Research Methods in Psychology PSYC 235: Interpersonal and Leadership Skills PSYC 250: Social Psychology PSYC 308: Psychology of Personality PSYC 313: Industrial and Organizational Psychology HLTH 332: Psychological Aspects of Injury and Illness</p>	<p>Coaching Minor (21 credits)</p> <p>Required Core Courses (15 sh total)</p> <p>HLTH 301 CPR and Emergency Care SPRT 106 Introduction to Sports Administration SPRT 305 Psychology of Coaching SPRT 323 Sport and Society HPED 3-- Adv Tech & Coaching (any - 3 sh total required)</p> <p>Support Courses (6 sh total)</p> <p>HLTH 202 Care and Prevention of Athletic Injuries HLTH 310 CPR and First Aid Instructor Training OR HPED 222 Lifeguard Instructor (2 sh) HLTH 320/336 Drug Education/Teaching Drug Education HLTH 341/470 Teaching Human Sexuality/Sex Education HPED 016 Strength Training (1 sh) HPED 302 Motor Learning Applied to Physical Education HPED --- Adv Tech and Coaching courses (1-3 sh) PSYC 201 Educational Psychology PSYC 235 Interpersonal Skills</p>
<p>Aquatics Minor (18 credits)</p> <p>Required Core Courses (11 sh total)</p> <p>SPRT 106 Introduction to Sport Administration HPED 222 Lifeguard Instructor (1 sh) HPED 225 Swimming/Lifeguard Training (1 sh) HPED 228 Aquacise (.5 sh) HPED 230 Synchronized Swimming (.5 sh) HPED 235 Water Safety Instructor (1 sh) HPED 350 Adv Tech Coaching Swimming and Diving (2 sh) HPED 351 Management of Aquatic Programs/Facilities</p> <p>Support Courses (7 sh total)</p> <p>HLTH 301 CPR and Emergency Care HPED 260 Practices and Principles of Conditioning (1 sh) SPRT 305 Psychology of Coaching SPRT 323 Sport and Society PSYC 201 Educational Psychology PSYC 235 Interpersonal Skills RECR 202 Outdoor Recreation Activities</p>	<p>Business Minor (21 credits)</p> <p>Requirements (15 sh total)</p> <p>ACCT 110 Financial Accounting ECON 101 Principles of Economics MANG 315 Management: Concepts and Strategies Another upper level Management course from among MANG 317, MANG 320, MANG 325, MANG 425, MANG 400, or MANG 430 MRKT 200 Intro to Marketing</p> <p>Electives (6 sh total)</p> <p>ACCT 115 Management Accounting ACCT 210 Introduction to Federal Income Tax CISC 250 Advanced Microcomputer Applications ENGL 345 Business Writing PHIL 425 Ethics in Business and Industry POLI 302 Business Law I PSYC 235 Interpersonal and Leadership Skills COMM 320 Business Communications OR...Any upper division (300 or 400 level) course designated MANG and/or MRKT, except MANG 475 (which is not open to students pursuing a business minor)</p>

B.F.A. in Studio Art: Specialization in Two-Dimensional Art

Name: ID#: Advisor:

I. General Education.....(42 credits)

Courses that meet GenEd electives

- Wellness (3 credits)
- Composition (3 credits)
- Speech (3 credits)
- Mathematics (3 credits)
- Art (6 credits)
 - ART103 (Intro to Art)
 - ART (300-400 Art History)
- Literature (3 credits)
- Philosophy (3 credits) PHIL 307 Philosophy of Art recommended
- World History (3 credits)
- Political Science or Economics (3 credits)
- Sociology, Anthropology or Geography (3 credits)
- Psychology (3 credits)
- Natural Science (6 credits)

II. General Education Electives7 credits

(1 credit)

BFA Entrance Portfolio

To be admitted into the BFA degree, students must submit a portfolio and have it approved by the Art faculty.
(date passed)

III. Fine Arts Requirements.....(71 Credits)

2-D Requirements.....(37 credits)

- ART105 Intro to 3-D
- ART110 Color & 2-D Design
- ART112 Drawing I
- ART210 Materials and Techniques
- ART217 Electronic Art
- ART312 Drawing II
- ART325 Printmaking
- ART330 Painting
- ART335 Sculpture
- ART350 or ART318 (Photog/Digital)
- ART355 Figure Studies
- ART440 Aesthetics Portfolios & Exhib
- ART490 Senior Capstone (1 credit)

Art History.....(6 credits)

Choose 2 courses from the following: ART301 (Renaissance through Baroque Art); ART304 (Ancient & Medieval Art); ART307 (Asian Art); ART401 (History of Modern Art); ART420 (Art Since 1950); ART430 (American Art)

Intermediate & Advanced 2-D Studies.....(19 credits)

Two-Dimensional 300 or above studio courses

ART425 Special Problems (4 credits)

Visual Arts Seminar.....(3 credits)

ART328 Humanities Seminar

Art Electives(6 credits)

TOTAL.....120 credits

General Education Overlays

- Multicultural:
- Writing Emphasis:
- Information Literacy:
- External Experience:

Senior Exhibition & Portfolio Review

Students are required to submit and pass a portfolio review prior to their senior year and be juried into a senior exhibition before graduation. (date passed)

B.F.A. in Studio Art: Specialization in Three-Dimensional Art

Name: ID#: Advisor:

I. General Education.....(42 credits)

Courses that meet GenEd electives

- Wellness (3 credits)
- Composition (3 credits)
- Speech (3 credits)
- Mathematics (3 credits)
- Art (6 credits)
 - ART103 (Intro to Art)
 - ART (300-400 Art History)
- Literature (3 credits)
- Philosophy (3 credits) PHIL 307 Philosophy of Art recommended
- World History (3 credits)
- Political Science or Economics (3 credits)
- Sociology, Anthropology or Geography (3 credits)
- Psychology (3 credits)
- Natural Science (6 credits)

II. General Education Electives7 credits

(1 credit)

BFA Entrance Portfolio

To be admitted into the BFA degree, students must submit a portfolio and have it approved by the Art faculty.
(date passed)

III. Fine Arts Requirements.....(71 Credits)

3-D Requirements.....(37 credits)

- ART105 Intro to 3-D
- ART110 Color & 2-D Design
- ART112 Drawing I
- ART210 Materials and Techniques
- ART217 Electronic Art
- ART312 Drawing II
- ART325 Printmaking
- ART330 Painting
- ART335 Sculpture
- ART350 or ART318 (Photog/Digital)
- ART355 Figure Studies
- ART440 Aesthetics Portfolios & Exhib
- ART490 Senior Capstone (1 credit)

Art History.....(6 credits)

Choose 2 courses from the following: ART301 (Renaissance through Baroque Art); ART304 (Ancient & Medieval Art); ART307 (Asian Art); ART401 (History of Modern Art); ART420 (Art Since 1950); ART430 (American Art)

Intermediate & Advanced 3-D Studies.....(19 credits)

Three-Dimensional 300 or above studio courses

ART425 Special Problems (4 credits)

Visual Arts Seminar.....(3 credits)

ART328 Humanities Seminar

Art Electives(6 credits)

TOTAL.....120 credits

General Education Overlays

- Multicultural:
- Writing Emphasis:
- Information Literacy:
- External Experience:

Portfolio Review

Students are required to submit and pass a portfolio review prior to their senior year and be juried into a senior exhibition before graduation. (date passed)

B.F.A. in Studio Art: Specialization in Graphic and OnLine Design (GOLD)

Name: ID#: Advisor:

I. General Education.....(42 credits)

Courses that meet GenEd electives

- Wellness (3 credits)
- Composition (3 credits)
- Speech (3 credits)
- Mathematics (3 credits)
- Art (6 credits)
 - ART103 (Intro to Art)
 - ART (300-400 Art History)
- Literature (3 credits)
- Philosophy (3 credits) PHIL 307 Philosophy of Art recommended
- World History (3 credits)
- Political Science or Economics (3 credits)
- Sociology, Anthropology or Geography (3 credits)
- Psychology (3 credits)
- Natural Science (6 credits)

II. General Education Electives7 credits

(1 credit)

BFA Entrance Portfolio

To be admitted into the BFA degree, students must submit a portfolio and have it approved by the Art faculty.
(date passed)

III. Fine Arts Requirements.....(71 Credits)

GOLD Requirements.....(40 credits)

- ART105 Intro to 3-D
- ART110 Color & 2-D Design
- ART112 Drawing I
- ART200 Visual Thinking
- ART217 Electronic Art
- ART221 Typography
- ART227 History of Graphic Design
- ART342 Print Design
- ART308 Online Design
- ART312 Drawing II
- ART350 or ART318 (Photog/Digital)
- ART440 Aesthetics Portfolios & Exhib
- ART411 Interactive Animation
- ART490 Senior Capstone (1 credit)

Art History.....(3 credits)

Choose 2 courses from the following: ART301 (Renaissance through Baroque Art); ART304 (Ancient & Medieval Art); ART307 (Asian Art); ART401 (History of Modern Art); ART420 (Art Since 1950); ART430 (American Art)

Advanced GOLD Studies.....(16 credits)

GOLD 300 or above studio courses

ART425 Special Problems (4 credits)

Visual Arts Seminar(3 credits)

ART328 Hum Sem (in Visual Arts)

Art Electives(9 credits)

TOTAL.....120 credits

General Education Overlays

- Multicultural:
- Writing Emphasis:
- Information Literacy:
- External Experience:

Portfolio Review

Students are required to submit and pass a portfolio review prior to their senior year and be juried into a senior exhibition before graduation.
(date passed)

**Bachelor of Arts Theatre Major Check Sheet
For Theatre Students Entering the Program On or After the Fall, 2010 Semester**

Full Name: _____	ID # _____
Entrance Date: _____	Transfer Credits From: _____
Advisor: _____	
THEA121 Acting _____ THEA121 Costumes _____ THEA121 Technical _____	
Developing Portfolio Approved: _____ Senior Portfolio Approved: _____	

GENERAL EDUCATION REQUIREMENTS

Wellness Core	3
Skills Core	9
<input type="checkbox"/> English Composition	3
<input type="checkbox"/> Mathematics	3
<input type="checkbox"/> Speech	3
Humanities	12
<input type="checkbox"/> Art/Music/Theatre/Dance	6
<input type="checkbox"/> Literature	3
<input type="checkbox"/> PHIL307 Philosophy of Art.....	3
Social and Behavioral Sciences	12
<input type="checkbox"/> World History.....	3
<input type="checkbox"/> Political Science or Economics	3
<input type="checkbox"/> Psychology	3
<input type="checkbox"/> Anthropology, Geography, Social Work or Sociology	3
Natural Sciences	6
<input type="checkbox"/> Biological Sciences, Chemistry, Geology or Physics	6
Liberal Arts Seminars	9
<input type="checkbox"/> THEA328 Humanities Seminar in Theatre.....	3
<input type="checkbox"/> Social Sciences.....	3
<input type="checkbox"/> Natural Sciences.....	3
 <input type="checkbox"/> Foreign Language (completion through level IV).....	 12
<input type="checkbox"/> Electives	10
Overlay Requirements	
<input type="checkbox"/> 3 courses WE (writing emphasis)	
<input type="checkbox"/> 2 courses IL (information literacy)	
<input type="checkbox"/> 2 courses MC (multicultural)	
<input type="checkbox"/> 2 units (28 hours) EE (external experience)	
Total General Education	73

BA THEATRE COURSE REQUIREMENTS

Core Requirements	21
<input type="checkbox"/> THEA110 Orientation to Theatre.....	3
<input type="checkbox"/> THEA117 Technical Theatre.....	3
<input type="checkbox"/> THEA121 Theatre Workshop.....	3
(1 sh each in acting, technical, costumes)	
<input type="checkbox"/> THEA134 Acting I	3
<input type="checkbox"/> THEA200 Survey of Dramatic Literature.....	3
<input type="checkbox"/> THEA340 Theatre History.....	3
<input type="checkbox"/> THEA370 Play Production.....	3

Electives in Theatre.....	26
<input type="checkbox"/> THEA137 Creative Dramatics	3
<input type="checkbox"/> THEA188 Stage Make-up	3
<input type="checkbox"/> THEA222 Children's Theatre	3
<input type="checkbox"/> THEA300 Stage Lighting	3
<input type="checkbox"/> THEA315 Intermediate Acting	3
<input type="checkbox"/> THEA335 Directing.....	3
<input type="checkbox"/> THEA337 Scene Design	3
<input type="checkbox"/> THEA366 Stage Costume Design	3
<input type="checkbox"/> THEA421 Theatre Workshop II	2
<input type="checkbox"/> THEA499 Independent Study	1-3
<input type="checkbox"/> THEAx59 Special Topics in Theatre.....	3
Total Theatre Requirements	47
Total General Education and Theatre Requirements.....	120

SPECIAL REQUIREMENTS FOR THEATRE MAJORS

1. Participation in the production program is required each term and is considered an important extension of the portfolio review. Exemptions to this policy may be granted by the theatre faculty for study abroad.
2. Attendance at department-approved productions and guest artist events is expected each term.
3. Students are required to submit and pass a portfolio review in the spring semester of their sophomore, junior and senior years.
4. Majors are expected to audition every semester. Exemptions to this policy may be granted by the theatre faculty for study abroad or when the student holds another role on a production team which precludes participation as an actor.
5. Majors are expected to participate in strike (the tear down of sets, props and costumes) for every main stage production. The technical director will establish the time and duration of participation.

**Bachelor of Arts Theatre Major – Musical Theatre Track Check Sheet
For Theatre Students Entering the Program On or After the Fall, 2010 Semester**

Full Name: _____	ID # _____
Entrance Date: _____	Transfer Credits From: _____
Advisor: _____	
THEA121 Acting _____ THEA121 Costumes _____ THEA121 Technical _____	
Developing Portfolio Approved: _____ Senior Portfolio Approved: _____	

GENERAL EDUCATION REQUIREMENTS

Wellness Core	3
Skills Core	9
<input type="checkbox"/> English Composition	3
<input type="checkbox"/> Mathematics.....	3
<input type="checkbox"/> Speech	3
Humanities	12
<input type="checkbox"/> Art/Music/Theatre/Dance	6
<input type="checkbox"/> Literature	3
<input type="checkbox"/> PHIL307 Philosophy of Art.....	3
Social and Behavioral Sciences	12
<input type="checkbox"/> World History	3
<input type="checkbox"/> Political Science or Economics	3
<input type="checkbox"/> Psychology	3
<input type="checkbox"/> Anthropology, Geography, Social Work or Sociology	3
Natural Sciences	6
<input type="checkbox"/> Biological Sciences, Chemistry, Geology or Physics	6
Liberal Arts Seminars	9
<input type="checkbox"/> THEA328 Humanities Seminar in Theatre.....	3
<input type="checkbox"/> Social Sciences.....	3
<input type="checkbox"/> Natural Sciences.....	3
 <input type="checkbox"/> Foreign Language (completion through level IV).....	 12
<input type="checkbox"/> Electives	10
Overlay Requirements	
<input type="checkbox"/> 3 courses WE (writing emphasis)	
<input type="checkbox"/> 2 courses IL (information literacy)	
<input type="checkbox"/> 2 courses MC (multicultural)	
<input type="checkbox"/> 2 units (28 hours) EE (external experience)	
Total General Education	73

BA THEATRE COURSE REQUIREMENTS

Core Requirements	21
<input type="checkbox"/> THEA110 Orientation to Theatre	3
<input type="checkbox"/> THEA117 Technical Theatre	3
<input type="checkbox"/> THEA121 Theatre Workshop.....	3
(1 sh each in acting, technical, costumes)	
<input type="checkbox"/> THEA134 Acting I.....	3
<input type="checkbox"/> THEA200 Survey of Dramatic Literature.....	3
<input type="checkbox"/> THEA340 Theatre History.....	3
<input type="checkbox"/> THEA370 Play Production	3

Musical Theatre Courses	15
<input type="checkbox"/> MUSI110 Introduction to Singing	3
<input type="checkbox"/> MUSI320 Music for the Theatre	2
<input type="checkbox"/> THEA121 Theatre Workshop (acting).....	1
<input type="checkbox"/> THEA188 Stage Make-up	3
<input type="checkbox"/> THEA315 Intermediate Acting	3
<input type="checkbox"/> THEA335 Directing.....	3
Electives in Theatre	11
(Choose 11 semester hours from this list; at least 6 must have a THEA prefix)	
<input type="checkbox"/> DANC100 Beginning Modern Technique	3
<input type="checkbox"/> DANC105 Basic Ballet Technique	3
<input type="checkbox"/> MUSI103 Basic Musicianship	3
<input type="checkbox"/> MUSI105 Music: Exploring Contemporary Trends in Rock, Jazz and Musical Theatre	3
<input type="checkbox"/> THEA222 Children’s Theatre	3
<input type="checkbox"/> THEA300 Stage Lighting	3
<input type="checkbox"/> THEA337 Scene Design	3
<input type="checkbox"/> THEA366 Stage Costume Design	3
<input type="checkbox"/> THEA421 Theatre Workshop II	2
<input type="checkbox"/> THEA499 Independent Study	1-3
<input type="checkbox"/> THEAx59 Special Topics in Theatre.....	3
 Total Theatre Requirements	 47
Total General Education and Theatre Requirements.....	120

SPECIAL REQUIREMENTS FOR THEATRE MAJORS

1. Participation in the production program is required each term and is considered an important extension of the portfolio review. Exemptions to this policy may be granted by the theatre faculty for study abroad.
2. Attendance at department-approved productions and guest artist events is expected each term.
3. Students are required to submit and pass a portfolio review in the spring semester of their sophomore, junior and senior years.
4. Majors are expected to audition every semester. Exemptions to this policy may be granted by the theatre faculty for study abroad or when the student holds another role on a production team which precludes participation as an actor.
5. Majors are expected to participate in strike (the tear down of sets, props and costumes) for every main stage production. The technical director will establish the time and duration of participation.

**Bachelor of Arts Theatre Major – Performance Track Check Sheet
For Theatre Students Entering the Program On or After the Fall, 2010 Semester**

Full Name: _____	ID # _____
Entrance Date: _____	Transfer Credits From: _____
Advisor: _____	
THEA121 Acting _____ THEA121 Costumes _____ THEA121 Technical _____	
Developing Portfolio Approved: _____ Senior Portfolio Approved: _____	

GENERAL EDUCATION REQUIREMENTS

Wellness Core	3
Skills Core	9
<input type="checkbox"/> English Composition.....	3
<input type="checkbox"/> Mathematics.....	3
<input type="checkbox"/> Speech	3
Humanities	12
<input type="checkbox"/> Art/Music/Theatre/Dance	6
<input type="checkbox"/> Literature.....	3
<input type="checkbox"/> PHIL307 Philosophy of Art.....	3
Social and Behavioral Sciences	12
<input type="checkbox"/> World History	3
<input type="checkbox"/> Political Science or Economics	3
<input type="checkbox"/> Psychology	3
<input type="checkbox"/> Anthropology, Geography, Social Work or Sociology	3
Natural Sciences	6
<input type="checkbox"/> Biological Sciences, Chemistry, Geology or Physics	6
Liberal Arts Seminars	9
<input type="checkbox"/> THEA328 Humanities Seminar in Theatre	3
<input type="checkbox"/> Social Sciences	3
<input type="checkbox"/> Natural Sciences.....	3
 <input type="checkbox"/> Foreign Language (completion through level IV).....	 12
 <input type="checkbox"/> Electives	 10
Overlay Requirements	
<input type="checkbox"/> 3 courses WE (writing emphasis)	
<input type="checkbox"/> 2 courses IL (information literacy)	
<input type="checkbox"/> 2 courses MC (multicultural)	
<input type="checkbox"/> 2 units (28 hours) EE (external experience)	
 Total General Education	 73

BA THEATRE COURSE REQUIREMENTS

Core Requirements	21
<input type="checkbox"/> THEA110 Orientation to Theatre	3
<input type="checkbox"/> THEA117 Technical Theatre	3
<input type="checkbox"/> THEA121 Theatre Workshop	3
(1 sh each in acting, technical, costumes)	
<input type="checkbox"/> THEA134 Acting I.....	3
<input type="checkbox"/> THEA200 Survey of Dramatic Literature	3
<input type="checkbox"/> THEA340 Theatre History.....	3
<input type="checkbox"/> THEA370 Play Production	3

Performance Courses	15
<input type="checkbox"/> THEA188 Stage Make-up	3
<input type="checkbox"/> THEA137 Creative Dramatics	3
<input type="checkbox"/> THEA222 Children’s Theatre	3
<input type="checkbox"/> THEA315 Intermediate Acting	3
<input type="checkbox"/> THEA335 Directing.....	3
Electives in Theatre.....	11
(Choose 11 semester hours from this list; at least 6 must have a THEA prefix)	
<input type="checkbox"/> COMM333 Oral Interpretation	3
<input type="checkbox"/> DANC100 Beginning Modern Technique	3
<input type="checkbox"/> DANC105 Basic Ballet Technique	3
<input type="checkbox"/> THEA300 Stage Lighting	3
<input type="checkbox"/> THEA337 Scene Design	3
<input type="checkbox"/> THEA366 Stage Costume Design	3
<input type="checkbox"/> THEA421 Theatre Workshop II	2
<input type="checkbox"/> THEA499 Independent Study	1-3
<input type="checkbox"/> THEAx59 Special Topics in Theatre.....	3
 Total Theatre Requirements	 47
 Total General Education and Theatre Requirements.....	 120

SPECIAL REQUIREMENTS FOR THEATRE MAJORS

1. Participation in the production program is required each term and is considered an important extension of the portfolio review. Exemptions to this policy may be granted by the theatre faculty for study abroad.
2. Attendance at department-approved productions and guest artist events is expected each term.
3. Students are required to submit and pass a portfolio review in the spring semester of their sophomore, junior and senior years.
4. Majors are expected to audition every semester. Exemptions to this policy may be granted by the theatre faculty for study abroad or when the student holds another role on a production team which precludes participation as an actor.
5. Majors are expected to participate in strike (the tear down of sets, props and costumes) for every main stage production. The technical director will establish the time and duration of participation.

**Bachelor of Arts Theatre Major – Technical Track Check Sheet
For Theatre Students Entering the Program On or After the Fall, 2010 Semester**

Full Name: _____	ID # _____
Entrance Date: _____	Transfer Credits From: _____
Advisor: _____	
THEA121 Acting _____ THEA121 Costumes _____ THEA121 Technical _____	
Developing Portfolio Approved: _____ Senior Portfolio Approved: _____	

GENERAL EDUCATION REQUIREMENTS

Wellness Core	3
Skills Core	9
<input type="checkbox"/> English Composition	3
<input type="checkbox"/> Mathematics.....	3
<input type="checkbox"/> Speech	3
Humanities	12
<input type="checkbox"/> Art/Music/Theatre/Dance	6
<input type="checkbox"/> Literature	3
<input type="checkbox"/> PHIL307 Philosophy of Art.....	3
Social and Behavioral Sciences	12
<input type="checkbox"/> World History	3
<input type="checkbox"/> Political Science or Economics	3
<input type="checkbox"/> Psychology.....	3
<input type="checkbox"/> Anthropology, Geography, Social Work or Sociology	3
Natural Sciences	6
<input type="checkbox"/> Biological Sciences, Chemistry, Geology or Physics	6
Liberal Arts Seminars	9
<input type="checkbox"/> THEA328 Humanities Seminar in Theatre	3
<input type="checkbox"/> Social Sciences.....	3
<input type="checkbox"/> Natural Sciences	3
 <input type="checkbox"/> Foreign Language (completion through level IV).....	 12
 <input type="checkbox"/> Electives	 10
Overlay Requirements	
<input type="checkbox"/> 3 courses WE (writing emphasis)	
<input type="checkbox"/> 2 courses IL (information literacy)	
<input type="checkbox"/> 2 courses MC (multicultural)	
<input type="checkbox"/> 2 units (28 hours) EE (external experience)	
 Total General Education	 73

BA THEATRE COURSE REQUIREMENTS

Core Requirements	21
<input type="checkbox"/> THEA110 Orientation to Theatre.....	3
<input type="checkbox"/> THEA117 Technical Theatre	3
<input type="checkbox"/> THEA121 Theatre Workshop	3
(1 sh each in acting, technical, costumes)	
<input type="checkbox"/> THEA134 Acting I	3
<input type="checkbox"/> THEA200 Survey of Dramatic Literature	3
<input type="checkbox"/> THEA340 Theatre History	3
<input type="checkbox"/> THEA370 Play Production	3

Technical Courses	15
<input type="checkbox"/> THEA188 Stage Make-up	3
<input type="checkbox"/> THEA300 Stage Lighting	3
<input type="checkbox"/> THEA335 Directing.....	3
<input type="checkbox"/> THEA337 Scene Design	3
<input type="checkbox"/> THEA366 Stage Costume Design	3
Electives in Theatre.....	11
(Choose 11 semester hours from this list; at least 6 must have a THEA prefix)	
<input type="checkbox"/> ART110 Color and Two-Dimensional Design	3
<input type="checkbox"/> ART112 Drawing I	3
<input type="checkbox"/> THEA137 Creative Dramatics	3
<input type="checkbox"/> THEA222 Children’s Theatre	3
<input type="checkbox"/> THEA315 Intermediate Acting	3
<input type="checkbox"/> THEA421 Theatre Workshop II	2
<input type="checkbox"/> THEA499 Independent Study	1-3
<input type="checkbox"/> THEAx59 Special Topics in Theatre.....	3
 Total Theatre Requirements	 47
 Total General Education and Theatre Requirements.....	 120

SPECIAL REQUIREMENTS FOR THEATRE MAJORS

1. Participation in the production program is required each term and is considered an important extension of the portfolio review. Exemptions to this policy may be granted by the theatre faculty for study abroad.
2. Attendance at department-approved productions and guest artist events is expected each term.
3. Students are required to submit and pass a portfolio review in the spring semester of their sophomore, junior and senior years.
4. Majors are expected to audition every semester. Exemptions to this policy may be granted by the theatre faculty for study abroad or when the student holds another role on a production team which precludes participation as an actor.
5. Majors are expected to participate in strike (the tear down of sets, props and costumes) for every main stage production. The technical director will establish the time and duration of participation.

COURSE DESCRIPTIONS

LOCK HAVEN UNIVERSITY – COURSE DESCRIPTIONS

Last updated 09/15/2011

ACCT110 Financial Accounting

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study and appreciation of the process of financial reporting for business organizations including the preparation of financial statements. Primary emphasis is on accounting concepts with an exposure to procedural techniques to give students a basic knowledge of the accounting process. The course is designed for users of accounting information.

Prerequisite: None

Corequisite: None

ACCT115 Management Accounting

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of the use of accounting data internally within a firm by managers in both manufacturing and non-manufacturing businesses. The course teaches students to use accounting data for planning, controlling and making decisions concerning the optimum allocation of the firm's financial resources. By completing ACCT110 and ACCT115, the student is provided a complete survey of the concepts and tools used by accountants.

Prerequisite: (ACCT110)

Corequisite: None

ACCT200 Effective Writing for Accounting and Finance

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Acquaints students with the types of professional writing prevalent in Accounting and Finance, including communication of financial and managerial accounting information and information related to audit and tax engagements. The primary emphasis is on preparing students to write proposals and reports appropriate to the accounting and financial environment.

Prerequisite: (ACCT115 AND CISC150 AND ENGL100)

Corequisite: None

ACCT210 Intro Federal Income Tax

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course introduces students to the federal income tax system, based on the Internal Revenue Code, its regulations and interpretations. Emphasis is on the concepts of tax planning and compliance for business decision-making, and secondarily, for use in individual financial planning. The course is required for Accounting majors, and it is a major elective for Management majors and in the Associate in Applied Science in Management program.

Prerequisite: (ACCT110)

Corequisite: None

ACCT215 Accounting Information Systems

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of modern concepts of accounting information systems including accounting systems design for organizations of differing character and complexity. Manual and automated accounting systems are reviewed including the transition from manual to automated accounting systems. Designing internal controls and auditing of computerized systems are reviewed.

Prerequisite: (ACCT115 AND CISC150)

Corequisite: None

ACCT300 Cost Accounting

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An in-depth study of the basic principles and procedures of cost accounting that are most often found in use by typical manufacturing and service organizations. The cost accounting cycle is studied in a step-by-step approach to the flow of costs. Emphasis is on estimating, planning and controlling costs.

Prerequisite: (ACCT115)

Corequisite: None

ACCT328 Accounting Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Prerequisite: None

Corequisite: None

ACCT333 Accounting for Governmental and Other Nonprofit Entities

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the principles and standards used in not-for-profit accounting, as applied to governmental entities, health care organizations, colleges and universities, and all other non-profit organizations.

Prerequisite: (ACCT115)

Corequisite: None

ACCT335 Intermediate Accounting 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Acquaints students with the theoretical foundation of generally accepted accounting principles for financial reporting and how those principles apply to a firm's asset, liability, and owners' equity accounts. Asset accounts are examined in depth.

Prerequisite: (ACCT110)

Corequisite: None

ACCT340 Intermediate Accounting 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A continuation of Intermediate Accounting I. However, the application is to several advanced topics and topics pertaining to widely held public companies. Material from Intermediate Accounting I is integrated and applied to these topics.

Prerequisite: (ACCT335)

Corequisite: None

ACCT410 Advanced Topics in Financial Accounting

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course develops topics stressing the relationship between specialized accounting functions and their impact on the financial statements of business organizations.

Prerequisite: None

Corequisite: None

ACCT420 Auditing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Introduces the standards and procedures underlying auditing. Emphasizes current auditing practices within the public accounting profession and operational auditing practices. Stresses risk analysis. Includes statistical sampling techniques.

Prerequisite: (ACCT335 AND MATH107) OR (MATH312)

Corequisite: None

ACCT435 International Accounting

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on how and why accounting principles differ among countries, and also on financial and accounting issues facing a United States-based enterprise, which operates in international business. Includes international auditing and taxation, as well as currency transaction and translation issues, and preparation of consolidated financial statements.

Prerequisite: None

Corequisite: None

ACCT450 Advanced Topics in Managerial Accounting

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to supplement and integrate Cost Accounting, Intermediate Accounting, and Management: Concepts and Strategies. Course approach emphasizes strategic cost management and the impact of managerial accounting information on employees' behavior within a company.

Prerequisite: (ACCT300 AND MATH107)

Corequisite: None

ACCT460 Advanced Federal Taxation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces students to the concepts of corporate, partnership, estate, and trust taxation. Emphasis is placed on tax theory and application, but also includes projects in tax research. The students will gain an understanding of taxation for C and S corporations, as well as the fundamental theories concerning estate and trust taxation. In addition, students will apply that theory in the preparation of Forms 1120, 1120S, 1065, 1041, and 706.

Prerequisite: (ACCT210)

Corequisite: None

ACCT480 Topics in Accounting

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces in-depth aspects of accounting and topics of current interest. Topics to be determined prior to the semester in which the course is offered.

Prerequisite: (ACCT335 AND ACCT340)

Corequisite: None

ADAC100 Learning Strategies for College

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to develop the learning styles, attitudes, and behavior of students with special academic needs. The students will be instructed in listening skills, note taking, textbook reading, preparation for tests, use of time, solving problems, organizing study, critical and creative thinking for studying, and methods for converting short-term memory to long-term memory.

Prerequisite: None

Corequisite: None

ADAC101 Introduction to Academic and Personal Development

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to the evolution and purposes of American higher education and the value of general education requirements. Explores the psychosocial development of college students with a focus on self-awareness along multiple domains including academic skills, interpersonal relationships, career interests, and technological and communication skills. Acquaints students with university resources, diversity issues, and the connection between student learning styles and college success.

Prerequisite: None

Corequisite: None

ADAC105 Principles & Development of Cognitive Reading Processes

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

College students will learn strategies and techniques to enhance their abilities to learn from written materials, including both expository and narrative texts and professional journals. The development of students' cognitive reading processes will be emphasized. This includes stressing methods pertaining to activating, schema, predicting, anticipating, searching, verifying, organizing, remembering and elaborating. Students will learn to apply metacognitive monitoring and self-correction strategies. Vocabulary development skills will also be emphasized, including the effective use of graphophonic, syntactic, semantic, and structural cues to identify unknown words.

Prerequisite: None

Corequisite: None

ADAC119 First Year Student Seminar

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Introduces students to the culture and mission of the university and its programs of study. Explores the purpose of one's college education and provides students an opportunity to become engaged with an academic discipline of interest. Through class discussions of readings and activities, students are engaged in active learning and the development of effective college study skills. Co-curricular activities and a peer mentor component facilitate connections with fellow students and faculty in the university community. Restricted to first semester, first year students Exploratory Studies students.

Prerequisite: None

Corequisite: None

ADAC125 Introduction to Career/Life Planning

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Through an exploration of career development, thorough self-assessment, development of sound decision-making skills, and exploration of academic programs of study and the world of work, this course facilitates the ultimate declaration of an appropriate major and the first steps in navigating the career/life planning process. Restricted to second and subsequent semester students.

Prerequisite: None

Corequisite: None

ADAC200 Foundations of Group Peer Tutoring

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

An overview of the mission, operation, and philosophy of Lock Haven University Tutorial Services. Students will be acquainted with the critical issues encountered in tutoring including, but not limited to, legal, multicultural, pedagogical, learning skills, learning styles, teaching styles and communication.

Prerequisite: None

Corequisite: None

ALTE300 Helping Skills in Alternative Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is an introduction to working with at-risk youth in alternative education settings. The course is designed to prepare future educators and others for work in alternative education settings by introducing the scope and purpose of alternative education, the characteristics and dynamics of at-risk conditions for youth, and by providing opportunities to develop basic helping skills. Students will learn basic helping skills necessary for effective intervention with at-risk students including helping communication, referral/case-management, conflict management, interviewing and assessment. Approximately one-half of the course is designed to examine at-risk youth issues and the programmatic considerations related to those issues and one-half of the course is devoted to examining alternative education settings and the development of helping skills appropriate to working in those settings. Restricted to Elementary and Special Education majors with a minimum of 60 credit hours; others by permission.

Prerequisite: None

Corequisite: None

ALTE480 Alternative Education Practicum

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The capstone course for the Alternative Education minor. It includes four weeks of classroom-only experience and eleven weeks in a placement at an alternative education program site. The four weeks of classroom experience emphasize alternative education theory and skills development. The eleven-week placement allows students to participate in a supervised participation experience, emphasizing practical application of alternative education classroom interventions.

Prerequisite: (ALTE300)

Corequisite: None

ALTE600 Introduction: Inquiry and Educational Change

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces the Master of Education in Teaching and Learning and Alternative Education. In this course graduate students will be introduced to the program expectations, tools and objectives including the technologies utilized for program delivery and electronic portfolio development, online learning strategies, the National Board for Professional Teaching Standards, the National Educational Technology Standards for Teachers, and educational research.

Prerequisite: None

Corequisite: None

ALTE604 Designing Assessments Using Performance Standards

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The purpose of this course is to provide graduate students an understanding of and practice with the design and analysis of assessments and rubrics that can be employed in a standards-based classroom. Readings and activities are grounded in educational research and illustrated with meaningful classroom practices of teaching and learning in a standards-based environment.

Prerequisite: None

Corequisite: None

ALTE607 Projects, Readings and Case Studies in Alternative Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Concentration on a project, readings, or reflective practice case studies in alternative education. Students choose from the following: (1) identify a curriculum, instruction, staff development, classroom management or leadership problem and design a plan or project to investigate that problem; (2) summarize and analyze scholarly writings in curriculum, instruction, classroom management, leadership, and other related areas in alternative education; (3) identify a curriculum, instruction, classroom management, leadership issue, and then plan and construct an inquiry regarding the issue.

Prerequisite: None

Corequisite: None

ALTE608 Education Reform

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An in-depth look at efforts to reform the education system in the United States. The course includes a historical overview of American education during the past 100 years; an analysis of reform efforts; contributions by various cultures, inside and outside of the United States to reform efforts; an overview of the process of reform; and, an exploration of current reform initiatives.

Prerequisite: None

Corequisite: None

ALTE609 Classroom Management and Control

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to promote student mastery of theory and practice related to classroom management. Students develop a repertoire of strategies to use for preventing and managing classroom discipline with all types of students and situations.

Prerequisite: None

Corequisite: None

ALTE610 Helping Skills in Alternative Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

This course is an introduction to working with at-risk youth in alternative education settings. The course is designed to prepare educators and others for work in alternative education settings by reviewing the characteristics and dynamics of at-risk conditions for youth and by providing opportunities to develop basic helping skills. Approximately 1/3 of the course is designed to examine at-risk youth issues, establishing appropriate conditions for helping, and the programmatic considerations in Alternative Education. Two-thirds of the course is devoted to examining various alternative education settings and the development of helping skills appropriate to working in those settings. Students will learn basic helping skills necessary for effective intervention with at-risk

students including helping communication, referral/case-management, conflict management, handling crises, and interviewing. Additional helping strategies including resilience education, social skills training, and community interventions are also introduced.

Prerequisite: None

Corequisite: None

ALTE611 Character Education: Developing Students to Become Productive Citizens

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on the need for developing students' ability to make good decisions based on reasoned principles and an approach to incorporate this skill as a part of the regular curriculum. Graduate students enrolled in this course will trace the history of moral education and evaluate various approaches to improve the moral behavior of grade school learners. In addition, the graduate students will choose one area of the curriculum and devise a long-range plan that will enhance the character development of their student learners.

Prerequisite: None

Corequisite: None

ALTE612 Number and Number Systems and Pedagogy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Utilizes the five core propositions of the National Board for Professional Teaching Standards and the associated discipline/grade level standards as a framework. Graduate students will utilize best practice in mathematical pedagogy and collaborate with other teachers to plan, teach and revise lesson plans in a format that follows Lesson Study research.

Prerequisite: None

Corequisite: None

ALTE615 Alternative Education: An Introduction to Theory and Practice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is designed to be an introduction to theories and practices in Alternative Education. An array of topics is explored to bring research, theories and practices together in a meaningful format. The inquiry nature of this course will serve as a building block for issues in other courses and the capstone research project. Emphasis is placed upon the practical application of theories in the classroom, best practices and characteristics of effective programs.

Prerequisite: None

Corequisite: None

ALTE616 Curriculum Issues in Alternative Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is an introduction to curriculum issues in alternative education settings. This course is designed to empower educators to facilitate a framework for instructional design in the classroom. Educational research proves that there are best practices that can be used to empower teachers to align curriculum, instruction, and assessment to the State and National Standards. Educators will be able to prepare environments that will promote success for at-risk students, by utilizing differentiated instructional and management techniques.

Prerequisite: None

Corequisite: None

ALTE617 Grant Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on the process of writing grants in human services and education. Students will explore and analyze the various components of a grant, the process of developing and writing proposals, research techniques that produce results, the budgeting process, and how to develop a unified proposal. Students will write a grant proposal as a final product for the course.

Prerequisite: None

Corequisite: None

ALTE618 Understanding the Role of Cognition and Social Skills in the Classroom

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

This course is designed to promote student mastery of theory and practice related to cognitive and social skills training. Specifically, students will explore brain-based learning, cognitive skills research, social skills research, and the practical uses of these concepts with students in the classroom.

Prerequisite: None

Corequisite: None

ALTE625 Investigating Curriculum Issues in Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students may select one issue from the following: curriculum mapping, designing assessment using performance standards, differentiated instruction, brain-based learning. In the alternative, they may propose another issue for instructor approval. Through investigation, analyzation, and discussion, students investigate and formulate criteria necessary for the implementation of best practices within the classroom. (ALTE625 does not supplant ALTE616.)

Prerequisite: None

Corequisite: None

ALTE645 Topics in Urban Education

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 3 sh]

An intensive approach to urban education issues and practices designed to explore specialized knowledge and skill pertinent to the field of education. Topics may include, among others, equity and diversity in the classroom, multi-ability classroom practices, urban curriculum issues, urban minority families and communities, and other relevant federal legislations, classroom management, and poverty. Emphasis is placed on written work and discussion.

Prerequisite: None

Corequisite: None

ALTE648 Topics in Alternative Education

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 3 sh]

An intensive approach to alternative education issues and practices designed to explore specialized knowledge and skill pertinent to the field of education. Topics may include, among others, correctional education, school and/or educational reform, charter schools, specialized alternative learning environments, residential settings, and urban education.

Prerequisite: None

Corequisite: None

ALTE692 Reflective Practice and Action Research 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The first of two courses designed to promote thoughtful consideration and application of educational theory and research to the analysis of student learning in the teacher's daily decision-making process.

Prerequisite: None

Corequisite: None

ALTE694 Reflective Practice and Action Research 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The second of two courses designed to promote thoughtful consideration and application of educational theory and research to the analysis of student learning in the teacher's daily decision-making process.

Prerequisite: (ALTE692) OR (EDTL692)

Corequisite: None

ALTE695 Advanced Field Experience

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The culminating course in the M.Ed. graduate program that allows the graduate student to apply knowledge and demonstrate skills gained in their professions. This course is restricted to graduate students and is a core requirement in the M.Ed. Teaching and Learning and Alternative Education programs.

Prerequisite: None

Corequisite: None

ANTH101 Intro Anthropology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the biological and cultural evolution of man based upon information developed in physical anthropology and archeology; an introductory examination of various social institutions from a cross-cultural perspective. Fulfills General Education Requirements. (Fulfills multicultural general education)

Prerequisite: None

Corequisite: None

ANTH102 Cultural Anthropology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course seeks to explore the diversity of human behavior in such areas as social organization, politics, economics and religion. As well as exploring the diversity of human behavior, the class will seek to understand and explain this behavior. A goal of this course is to have students view new patterns of living using the principle of cultural relativism. Fulfills General Education Requirements. (Fulfills multicultural general education)

Prerequisite: None

Corequisite: None

ANTH323 Cultures North American Indians

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of traditional native American culture and the process by which the various indigenous cultures are currently merging into a pan-Indian awareness. (Fulfills multicultural general education)

Prerequisite: None

Corequisite: None

ANTH328 Social Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An investigation of the status of men and women in hunting and gathering, horticultural, agricultural, developing and industrial societies. Through this investigation we will discover the factors heading to sexual equality and inequality and make some assessments about the status of women in our society using a comparative perspective. (Fulfills multicultural general education)

Prerequisite: None

Corequisite: None

ANTH330 Japanese Culture and Society

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Sociological and anthropological perspectives are used to understand Japanese culture and society. The course will highlight various social institutions and cultural elements of the Japanese society, namely education, religion, popular culture, group dynamics, marriage and the family, and economy. Through the multidisciplinary approach, the course will investigate both historical as well as contemporary issues concerning Japan. See also SOCI330.

Prerequisite: (SOCI101) OR (ANTH102) OR (ANTH101)

Corequisite: None

ANTH422 Anthropology Latin America

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A study of indigenous cultures of Central and South America as constructed from archaeological, ethnographic and historical data. Ethnographic information on contemporary peasants, Indians, and urban residents and analysis of current events from an anthropological point of view will also be presented. (Fulfills multicultural general education)

Prerequisite: (ANTH101) OR (ANTH102)

Corequisite: None

ANTH424 Anthropology of the Middle East

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of the political, economic, religious and kinship systems of Middle Eastern peasants, pastoralists and townsmen. Contemporary issues such as the rise of Islamic Fundamentalism, Arab-Israeli relations, oil wealth, labor migration and development will also be examined from an anthropological perspective.

Prerequisite: (ANTH101) OR (ANTH102) OR (SOCI101)

Corequisite: None

ANTH622 Anthropology of Latin America

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of indigenous cultures of Central and South America as constructed from archaeological, ethnographic and historical data. Ethnographic information on contemporary peasants, Indians, and urban residents and analysis of current events from an anthropological point of view will also be presented.

Prerequisite: None

Corequisite: None

ANTH624 Anthropology of the Middle East

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of the political, economic, religious and kinship systems of Middle Eastern peasants, pastoralists and townsmen. Contemporary issues such as the rise of Islamic Fundamentalism, Arab-Israeli relations, oil wealth, labor migration and development will also be examined from an anthropological perspective.

Prerequisite: None

Corequisite: None

ANTH628 Social Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course will investigate the status of men and women in hunting and gathering, horticultural, agricultural, developing and industrial societies. Through this investigation we will discover the factors heading to sexual equality and inequality and make some assessments about the status of women in our society using a comparative perspective.

Prerequisite: None

Corequisite: None

ANTH630 Japanese Culture and Society

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course will use sociological and anthropological perspectives to understand Japanese culture and society. The course will highlight various social institutions and cultural elements of the Japanese society, namely education, religion, popular culture, group dynamics, marriage and the family, and economy. Through the multidisciplinary approach, the course will investigate both historical as well as contemporary issues concerning Japan.

Prerequisite: None

Corequisite: None

ART100 Understanding Art

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Introduces students to the world of art both past and present. Explores the essential ideas of art and examines them in concrete form using examples from diverse times and cultures. Stresses understanding art as a universal human creative impulse by studying its forms in a variety of aesthetic and cultural contexts.

Prerequisite: None

Corequisite: None

ART102 Art Fundamentals

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of the basic principles which govern all art forms and an exploration of the art elements which allow these principles to be applied. The emphasis will be on the development of visual thinking and the ability to respond to art as well as to natural and manmade environments. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

ART103 Introduction to Art

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of art history that serves as an introduction to aesthetics, perception, art criticism, and the art heritage of humankind. It is designed to help students develop appreciation and understanding of the visual arts. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

ART105 Introduction Three-Dimensional Art

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course is an introduction to the basic understanding of the elements of composition and principles of design in the three-dimensional arts. The student will acquire this knowledge by executing a series of studio projects intended to simulate visual problem-solving. The course will examine the practical application of basic concepts of design in the plastic arts by exposure to masterworks through slide presentations and museum field trips. The student will engage in aesthetic exercises which primarily focus on the fundamental principles of three-dimensional design rather than the exploration of the subjective, creative-process. This course will satisfy the Art requirement for General Education.

Prerequisite: None

Corequisite: None

ART110 Color & Two-Dimensional Design

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A development of judgment and creativity in solving problems of abstract and decorative design with the use of color. Students will be introduced to computer graphics.

Prerequisite: None

Corequisite: None

ART112 Drawing 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A beginning exploration of drawing practices, materials and concepts concentrating on perspective, still life, landscape and portrait. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

ART200 Visual Thinking

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The study of idea development as it applies to the graphic communicator. A variety of idea generating techniques are explored with a strong emphasis upon quick visual exercises to stimulate innovative thinking and collaborative visual problem solving. Does not meet General Education requirements.

Prerequisite: None

Corequisite: None

ART210 Materials & Techniques

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An intensive study and experimentation with different media. Stress is placed on creative expression and the use of the principles of design. Students will be introduced to computer graphics. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

ART217 Introduction to Electronic Art

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to electronic and digital means of producing artworks utilizing primarily computer based technology. Students create electronically generated images and are required to solve specific design problems.

Prerequisite: (ART110) OR (ART212) OR (ART112)

Corequisite: None

ART221 Typography

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to typography: the art of designing with type, including the planning of typeface, size, composition, and page layout. This course explores the fundamental principles of typography and its integral role in graphic design.

Prerequisite: (ART110)

Corequisite: None

ART227 History of Graphic Design

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Survey of the history of design concentrating on visual communication and typography from prehistory to the digital revolution.

Prerequisite: (ART103) OR (ART105) OR (ART110)

Corequisite: None

ART230 Introduction to Computerized Design

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to basic design elements and the computer skills necessary to implement them. Computer design and multi-media programs will be introduced and their application explored. Does not fulfill General Education requirements.

Prerequisite: None

Corequisite: None

ART300 Arts and Crafts

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to expose the student to a wide-range of fine applied crafts, featuring a variety of experiences utilizing various media and techniques. Students will be encouraged to develop and express creative ideas in their work, as well as be expected to broaden their ideas through research of designs from various sources. The practical application of the theoretical knowledge and understanding of the fundamental elements principles of design will be emphasized.

Prerequisite: None

Corequisite: None

ART301 Renaissance and Baroque Art

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Art historical survey that covers the architecture, sculpture and painting in Italy, Flanders, Holland, England, and Spain from the fifteenth through the seventeenth centuries. Fulfills General Education Requirements. Recommend ART103 or ART304 prior to enrolling.

Prerequisite: None

Corequisite: None

ART302 Art for Early Childhood

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An emphasis on art and art education for children between the pre-kindergarten and third grades. Students become familiar with the philosophy and theories of art education, curriculum planning, and teaching/learning strategies for young children. Various art activities will provide hands-on experience. ART302 is open only to students with a declared major in Early Childhood and a minimum number of 32 sh.

Prerequisite: None

Corequisite: None

ART304 Ancient & Medieval Art

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A detailed study of the history of art from Paleolithic times through the Gothic period. Art objects will be studied as reflections of changing cultural priorities that coincide with historic developments in Western Civilization. Fulfills General Education Requirements.

Prerequisite: (ART103)

Corequisite: None

ART305 Pottery

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the methods of forming pottery from primitive to contemporary techniques. Explores various types of decorating, glazing, and firing. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

ART306 Art Elem Self-Contained Classrm

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An art education course of theory, activities, media and appreciation for the classroom teacher to use for integrating art with other core subjects in the elementary grades. ART306 is open only to students with a declared major in Elementary Education with a minimum of 32 sh.

Prerequisite: None

Corequisite: None

ART307 Asian Art

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A survey of the visual arts in Asia (India, China and Japan) from prehistoric through the eighteenth century (pre-modern period). Emphasis will be on tracing major artistic developments and achievements in each region.

Prerequisite: None

Corequisite: None

ART308 On-line Interactive Design

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A studio course that explores concepts and structures of on-line communication employing interactive digital media. A variety of World Wide Web authoring tools and procedures are introduced.

Prerequisite: (ART217) OR (ART110)

Corequisite: None

ART309 Fabrics and Fibers

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Based upon contemporary design techniques for textiles that had their origin in other cultures. Students will engage in a wide range of fiber arts experiences, featuring a variety of media and techniques.

Prerequisite: None

Corequisite: None

ART312 Drawing 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to expand the students conception of drawing subjects, techniques, and materials. An appreciation and study of drawings by major artists is also included. Fulfills General Education Requirements

Prerequisite: (ART212) OR (ART112)

Corequisite: None

ART315 Ceramics: Techniques in Hand- building and Tile Construction

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A studio intensive exploration of various hand-building and tile construction techniques. The hand-built construction techniques investigated will be slab, drape, coil, additive, and reductive methods. The tile-making component of this course will emphasize various traditional and nontraditional mosaic tile construction methods. Bas, mezzo, and alto relief tile construction will be explored by creating plaster press and stamp molds of student generated relief tiles. Fulfills General Education Requirements

Prerequisite: None

Corequisite: None

ART318 Introduction to Digital Photography

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the art, craft and history of photography through digital media.

Prerequisite: (ART217) OR (ART217)

Corequisite: None

ART325 Printmaking

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An exploration of various traditional and contemporary printmaking techniques. Media include linoleum, woodcut, wood engraving, copper and zinc etching and engraving. Fulfills General Education Requirements.

Prerequisite: (ART110 AND ART112) OR (ART110 AND ART212)

Corequisite: None

ART328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

In-depth exploration of a selected topic in art. Students engage in research and participate in intensive discussions. Emphasis will be on gaining critical understanding of works of art through contextualization and study of various issues related to a given genre or social/historical context.

Prerequisite: None

Corequisite: None

ART330 Painting

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of various painting materials, techniques, and styles of painting. Stress is placed on development of a creative, personal style. Paintings from the mid-1800s to the present serve as course models. Media may include watercolor, oil and acrylic paint. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

ART335 Sculpture & Three-Dimensional Design

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to three-dimensional design and sculpture with an examination of many sculptural techniques, both ancient and modern. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

ART340 Jewelry

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is designed to introduce students to basic metal working tools and equipment, and a variety of hand fabrication and soldering techniques. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

ART342 Print Design

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to processes and problems in print design. This course specifically builds upon skills developed in ART221 Typography.

Prerequisite: (ART217 AND ART221)

Corequisite: None

ART345 Metals - Surface and Form Manipulation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to introduce students to a variety of surface decorations using texture and color, as well as to provide opportunities for students to explore numerous ways of manipulating metal into three-dimensional forms. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

ART350 Photography 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Beginning exploration of photographic processes and materials. The course attempts to take the subject matter beyond its stage of literalness to a more expressive and stylistic approach in content and technique. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

ART355 Life Studies

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration and study of the anatomy and expressive qualities of the human form through drawing.

Prerequisite: (ART312)

Corequisite: None

ART390 Video Art

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to digital video as an expressive art medium including filming, nonlinear editing, audio and post-production techniques.

Prerequisite: (ART217)

Corequisite: None

ART401 History of Modern Art

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Modern art from 1800 to 1990. Emphasis on relating concepts of modern art to the philosophy underlying development of various 19th and early 20th century art styles. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

ART411 Interactive Animation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Exploration of computer based animation and drawing techniques utilizing a vector-based animation program such as Macromedia Flash.

Prerequisite: (ART212 AND ART217) OR (ART112 AND ART217)

Corequisite: None

ART420 Art Since 1950

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A survey of art since 1950. Emphasis is placed on the study of artistic movements emerging in reaction to Modernism and the impact of critical theory on late twentieth and early twenty-first century art.

Prerequisite: (ART103 AND ART401)

Corequisite: None

ART425 Special Problems

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 4 sh]

Topics available from any studio course after having completed the basic course and gained permission from department. Makes possible individual study, creative work or research under the direct guidance of the art staff. May be taken for 1 to 3 credits more than one time to provide options for in-depth study within a specified area. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

ART430 American Art: Unity in Diversity

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A historical survey covering art produced in America from Colonial to Contemporary eras. Also examines influences that stem from multicultural sources, including the contributions of minorities to art in the US.

Prerequisite: (ART103)

Corequisite: None

ART440 Aesthetics, Portfolios and Exhibitions

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is taught in three units. The first covers the aesthetics from a wide range of studio disciplines. The second focuses on methods for creating portfolios for professional presentation. The third deals with exhibition preparation and gallery and museum practices. Emphasis is placed on hands on experience and development of career enhancing skills for art majors.

Prerequisite: None

Corequisite: None

ART490 Senior Capstone

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Students engage in an intensive project related to their major concentration which will culminate in an exhibition or presentation. Emphasis will be on gaining critical understanding of their work through articulation of goals, active critique, and self-assessment.

Prerequisite: (ART440)

Corequisite: None

ART600 Renaissance and Baroque Art

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the architecture, sculpture and painting in Italy, Flanders, Holland, Germany, England, and Spain, with an emphasis on the general characteristics of the Renaissance.

Prerequisite: None

Corequisite: None

ART609 History of Modern Art

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Modern art from 1800-1940. Emphasis is placed on the development of concepts relating to modern art and the philosophy underlying the development of various styles of art in the Nineteenth and early Twentieth Centuries.

Prerequisite: None

Corequisite: None

ART628 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The chief purpose of this seminar is to explore the role of the fine arts in contemporary society and in the life of the individual. Students will be required to attend all cultural events on campus (i.e., concerts, plays, art exhibits, etc.). These events will be the basis for discussion, and brief review papers of all these events will be required. Field trips to Bucknell University, Lycoming College, and The Pennsylvania State University may be planned. When possible a trip to Washington, D.C., or New York City will be scheduled.

Prerequisite: None

Corequisite: None

ART630 American Art: Unity in Diversity

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An historical survey of American art covering prehistoric through modern eras. In addition to the American core culture, it includes typical contributions of minorities, such as American Indians, African Americans, Hispanic Americans, and women artists of all ethnic groups.

Prerequisite: None

Corequisite: None

ART640 Jewelry 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An overview of the basic techniques for beginners in designing and making jewelry. A variety of tools and materials are used with a variety of different processes

Prerequisite: None

Corequisite: None

ATTR106 Athletic Training Technique

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

An introduction to the basic techniques and procedures that are used in the athletic training profession. This course will specifically train the student to be certified in professional rescuer cardiopulmonary resuscitation (CPR) and Automated External Defibrillator (AED) use. Emphasis will be placed on skills pertaining to injury prevention and acute care.

Prerequisite: None

Corequisite: None

ATTR110 Orientation Athletic Training

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to orient students interested in the profession of athletic training to the policies and procedures of the Lock Haven University Athletic Training Education Program (ATEP). Emphasis will be on introductory athletic training skills and athletic training room management.

Prerequisite: None

Corequisite: None

ATTR202 Care and Prevention of Athletic Injuries

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to expose students to prevention and recognition techniques related to injuries sustained during participation in physical activity. Students will develop skills necessary to interpret risk factors associated with participation as well as prevention and recognition skills for environmental injuries, common orthopedic injuries and concussions.

Prerequisite: (HLTH151) OR (HLTH128)

Corequisite: None

ATTR230 Evidence-Based Medicine

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to introduce the concepts of evidence-based medicine. Students develop the skills to generate an appropriate clinical question, search and critically evaluate the relevant literature, and make a clinical recommendation based on the findings.

Prerequisite: None

Corequisite: None

ATTR260 General Medical Conditions in Athletic Training

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to allow students to develop knowledge and skill in the assessment of general medical conditions and illnesses that occur in the physically active individual which includes an analysis of illness transmission, pathology, prevention, recognition, treatment and referral.

Prerequisite: None

Corequisite: None

ATTR304 Administration and Organization of Athletic Training 1

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Designed to examine in-depth the various issues, policies and procedures involved with the administration of athletic training in the traditional and nontraditional settings. An intensive evaluation of facility organization and design, Standard Operating Procedures and Emergency Action Plans, legal issues, budgeting, health care services, organizations and documents that affect the profession of athletic training, and performance enhancement methods, as well as drug testing procedures are investigated.

Prerequisite: None

Corequisite: None

ATTR322 Functional Anatomy 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A clinically based approach to human anatomy stressing the functional relationship and interaction of the various anatomical structures. Human cadaver dissection by the students is an integral part of the laboratory sessions. Major body areas covered include the lower extremity, spine, respiratory system, and cardiovascular system.

Prerequisite: None

Corequisite: None

ATTR332 Psychological Aspects of Injury and Illness

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to expose students to the psychological aspect of injury, illness, and rehabilitation. Students are exposed to the growing body of literature that indicates psychological issues can have a significant impact on the quality of rehabilitation and one's life. Students learn about the various psychological factors that influence the rehabilitation process including, motivation, confidence, anxiety, and pain. Goal setting techniques, relaxation training, mental imagery, social support techniques, pain management techniques, and referral processes are also discussed.

Prerequisite: (PSYC100)

Corequisite: None

ATTR342 Functional Anatomy 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A clinically based approach to human anatomy stressing the functional relationship and interaction of the various anatomical structures. Human cadaver dissection by the students is an integral part of the laboratory sessions. Major body areas covered include the upper extremity, head, sensory organs, and nervous, urinary, reproductive, integumentary, and endocrine systems.

Prerequisite: None

Corequisite: None

ATTR364 Evaluation Techniques I

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to introduce students to on-field and off-field injury evaluation techniques and management of the lower extremity. Students will develop their general evaluation skills and decide how to deal with lower extremity injuries of the foot, ankle, lower leg, knee, hip, thigh, pelvis, and lumbar spine.

Prerequisite: None

Corequisite: None

ATTR365 Evaluation Techniques II

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to introduce students to injury evaluation techniques for athletic trainers. Students will develop their evaluation skills in deciding how to deal with concussions and upper extremity injuries including the wrist, hand, fingers, elbow, forearm, shoulder, head, face, thorax, and abdominal regions.

Prerequisite: None

Corequisite: None

ATTR404 Administration and Organization of Athletic Training 2

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Designed to prepare students for employment by organizing a resume, developing interview skills and employee evaluations, researching continuing education options, making decisions about employee conflict, and identifying Federal and State laws governing employment. Students will learn about the psychological techniques pertinent to athletics, as well as appropriate referral options and counseling techniques. In addition, this course will provide students with a strong background in research methodology and current issues in athletic training.

Prerequisite: None

Corequisite: None

ATTR453 Athletic Training Clinical Experience 1

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

This course is designed to allow students to begin applying athletic training clinical skills and proficiencies to real life situations under the supervision of a certified athletic trainer. The skills developed by the students will address competencies listed under the

following content areas: Risk Management and Injury Prevention, Assessment and Evaluation, Acute Care of Injury and Illness, and General Medical Conditions. Restricted to students accepted into the Athletic Training Education Program.

Prerequisite: None

Corequisite: None

ATTR454 Athletic Training Clinical Experience 2

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Designed to allow students to begin applying athletic training clinical skills and proficiencies to real life situations under the supervision of a clinical instructor. The skills developed by the students will address competencies and proficiencies listed under the following content areas: Risk Management and Injury Prevention, Assessment and Evaluation, Acute Care of Injury and Illness, Therapeutic Modalities, and Psychosocial Intervention/Referral.

Prerequisite: None

Corequisite: None

ATTR455 Athletic Training Clinical Experience 3

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2sh]

Designed to allow students to apply athletic training clinical skills and proficiencies to real life situations under the direct supervision of a clinical instructor. The skills developed by the students will address competencies and proficiencies listed under the following content areas: Risk Management and Injury Prevention, Assessment and Evaluation, Acute Care of Injury and Illness, Therapeutic Exercise, and Psychosocial Intervention and Referral. Restricted to students in their third semester of the Athletic Training Education Program's professional phase.

Prerequisite: None

Corequisite: None

ATTR456 Athletic Training Clinical Experience 4

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

This course is designed to allow students to begin applying athletic training clinical skills and proficiencies to real life situations under the supervision of a certified athletic trainer. The skills developed by the students will address competencies listed under the following content areas: Risk Management and Injury Prevention, Assessment and Evaluation, Acute Care of Injury and Illness, Pharmacology, Therapeutic Modalities, Therapeutic Exercise, General Medical Conditions and Disabilities, Nutritional Aspects of Injury and Illness, Psychosocial Intervention and Referral, and Health Care Administration. Restricted to students accepted into the Athletic Training Education Program.

Prerequisite: None

Corequisite: None

ATTR457 Athletic Training Clinical Experience 5

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

This course is designed to allow students to begin applying athletic training clinical skills and proficiencies to real life situations under the supervision of a certified athletic trainer. The skills developed by the students will address competencies listed under the following content areas: Risk Management and Injury Prevention, Assessment and Evaluation, Acute Care of Injury and Illness, Pharmacology, Therapeutic Modalities, Therapeutic Exercise, General Medical Conditions and Disabilities, Nutritional Aspects of Injury and Illness, Psychosocial Intervention and Referral, and Health Care Administration. Restricted to students accepted into the Athletic Training Education Program.

Prerequisite: None

Corequisite: None

ATTR462 Physical Modalities in Sports Medicine

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Designed as an in-depth analysis of the theory and application of hydrotherapy, electrotherapy, thermotherapy, cryotherapy, manual, and mechanical techniques for the treatment of injuries in the physically active patient.

Prerequisite: None

Corequisite: None

ATTR463 Therapeutic Exercise & Rehab

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Designed to teach the theory and application of exercise prescription and rehabilitation techniques. Equipment utilized in the prevention and treatment of injuries is presented. Students will develop the skills necessary to design and implement an exercise program for individuals in both the healthy and diseased states.

Prerequisite: None

Corequisite: None

AVIA115 Aviation/Aerospace Workshop

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

This workshop is designed to give prospective teachers of aviation/aerospace specific preparation to teach typical courses. It will cover such scientific aspects as aerodynamics, aircraft components, weight and balance, meteorology, physiology of flight, and the nature of outer space. Technologically it will include aircraft systems, basic navigation, radio navigation, communications, and the like. Other factors to be dealt with include air traffic control, federal aviation regulations, military applications, commercial and general aviation, and the aviation/aerospace education movement. Special force will be lent to the program by field trips and flight instruction, as well as the use of outstanding specialist consultants. This course will meet 3 sh of the laboratory requirements for general education.

Prerequisite: None

Corequisite: None

AVIA615 Aviation/Aerospace Workshop

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6sh]

This workshop is designed to give prospective teachers of aviation/aerospace specific preparation to teach typical courses. It will cover such scientific aspects as aerodynamics, aircraft components, weight and balance, meteorology, physiology of flight, and the nature of outer space. Technologically it will include aircraft systems, basic navigation, radio navigation, communications, and the like. Other factors to be dealt with include air traffic control, federal aviation regulations, military applications, commercial and general aviation, and the aviation/aerospace education movement. Special force will be lent to the program by field trips and flight instruction, as well as the use of outstanding specialist consultants.

Prerequisite: None

Corequisite: None

BIOL101 Basic Biology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Covers topics across the biological hierarchy from atoms to issues of global ecology, including genetics, molecular biology, and evolution. The intent is to further students' understanding of the impact of biological phenomena on their lives. Humans may provide the focus of some discussions; however, emphases include broader aspects of biological phenomena. Laboratory exercises provide students with practical experience using the scientific method.. This course fulfills the general education natural science requirement, but cannot be used for biology credit by biology majors.

Prerequisite: None

Corequisite: None

BIOL102 Environmental Science

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course for non-majors integrates the introduction to ecological principles and concepts with an examination of the biological basis of contemporary environmental problems. It presents a treatment of central topics in environmental science by examining social, political, ethical, and economic factors that influence the biological aspects of environmental issues such as population control, pollution, land use, as well as conservation of natural resources and natural habitats. Laboratory exercises are designed to demonstrate some of the biological aspects of environmental issues and introduce students to basic processes used in environmental research. Meets general education requirement for laboratory science. May not be counted toward the Biology, Natural Sciences or Biology/Chemistry major requirements.

Prerequisite: None

Corequisite: None

BIOL103 Inquiry into Biology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Develops a strong conceptual understanding of life science and stresses the nature and the processes of science as they relate to the fundamental principles of biology that are emphasized in the National Science Education Standards. The course models hands-on, inquiry-based practices as students use reasoning, analysis, scientific processes, procedures and tools of scientific investigations to learn about the structure and functions of organisms, continuity of life and ecological systems.

Prerequisite: None

Corequisite: None

BIOL106 Principles of Biology 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to biology with emphasis on the chemistry of life, cell structure and function, cellular metabolism and cell reproduction. Laboratory exercises are designed to reinforce principles covered in lecture and to provide students with experiences in making observations, hypothesis testing, and data collection, analysis and interpretation. This course is designed for science and health science majors. This course may not be used in combination with BIOL101 to satisfy general education natural science requirements.

Prerequisite: None

Corequisite: None

BIOL107 Principles of Biology 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A continuation of Principles of Biology I with emphasis on cell reproduction and development, genetics, molecular biology, biological evolution and the diversity of life, and fundamentals of ecology. Laboratory exercises are designed to reinforce and supplement principles covered in lecture and to provide students with experiences in making observations, hypothesis testing, and data collection, analysis and interpretation. This course qualifies as a general education requirement in the natural sciences. May not be used in combination with BIOL101 to satisfy general education natural science requirements.

Prerequisite: (BIOL106)

Corequisite: None

BIOL108 Field Natural History

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The life history, economic values, aesthetic values of plants and animals. Lab and field identification exercises requiring the use of field guides and keys. Introduction to natural history literature. This course fulfills the general education natural science requirement, but cannot be used for biology credit by biology majors.

Prerequisite: None

Corequisite: None

BIOL200 Marine Biology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of plant and animal life in the marine environment. Emphasis will be on physical and chemical factors affecting the biota in the intertidal, open water, and benthic habitats. Common biota characteristic of each habitat will be investigated in terms of their natural history, morphology and ecological relationships. Laboratory and field exercises will emphasize the identification, anatomy, physiology, systematics and behavior of marine plants and animals as well as the physical and chemical properties of seawater. This class will be taught during summer session at the Wallops Island Campus of the Marine Science Consortium by faculty from various member universities.

Prerequisite: (BIOL106 AND BIOL107)

Corequisite: None

BIOL202 Genetics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An overview of the basic principles of Mendelian genetics, cytogenetics, molecular genetics, and population genetics. Laboratory exercises emphasize molecular techniques, statistical evaluation of results, and case studies.

Prerequisite: (BIOL106 AND BIOL107 AND CHEM121)

Corequisite: None

BIOL205 Marine Ecology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the interrelationships among animals, plants, and physical and chemical aspects of the marine environment with an emphasis on unique adaptations for survival. This class is taught during summer session at the Wallops Island Campus of the Marine Science Consortium by faculty from various member universities.

Prerequisite: (BIOL106 AND BIOL107)

Corequisite: None

BIOL206 Botany

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the principles of botany. Emphasis is placed on the integration of structure and function that reflect plant diversity and evolution. The primary models are angiosperms, but also include discussion of other plant taxa. Topics covered include plant cellular structure, anatomy and morphology of stems, roots and leaves and flowers, transport processes, photosynthesis, plant growth and development, plant diversity, and economic botany.

Prerequisite: (BIOL106 AND BIOL107)

Corequisite: None

BIOL213 Introduction to Geographic Information Systems

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to geographic information systems (GIS) with emphasis on capturing, storing, editing, querying, displaying, and analyzing geographically referenced data. Lecture and laboratory materials are designed to provide students with hands-on experience on real-world applications of GIS in their respective fields.

Prerequisite: None

Corequisite: None

BIOL215 Basic Microbiology

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4sh]

Introduces clinical nursing students to the biology, metabolism, classifications, ecology, genetics and evolution of microbes. Emphasis is placed on the role of bacteria in human health and disease, control of microbial growth, and antimicrobial resistance. The laboratory includes techniques in handling, isolation, cultivation, staining, identification, and control of microorganisms. Intended for students in the Nursing program and will not satisfy a core requirement for a BS degree in Biology.

Prerequisite: None

Corequisite: None

BIOL220 DNA Methods in Biology

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

An overview of the uses of DNA-based methods in modern biology, such as forensic identification of humans and animals, species determination, parentage testing, medical diagnostics, and evolutionary biology. Topics include the history of DNA analyses, collection/preservation of DNA samples, DNA typing and sequencing applications, and DNA databases.

Prerequisite: (BIOL106 AND BIOL107)

Corequisite: None

BIOL225 Human Genetics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An overview of the basic principles of Mendelian genetics, cytogenetics, molecular genetics, and population genetics with a focus on the mechanisms of human inheritance and disease. Restricted to Health Science majors. Does not satisfy biology elective credits for Biology majors, Biology/Chemistry majors or Biology minors. Does not satisfy natural science general education requirements.

Prerequisite: (BIOL106 AND BIOL107 AND CHEM121)

Corequisite: None

BIOL240 Zoology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of the animal kingdom with emphasis on evolutionary relationships within, between, and among constituent phyla. Lectures emphasize diversity, comparative anatomy, functional morphology, physiology, life history, ecology, and evolution. Laboratories emphasize and provide support for lecture concepts and comprise microscope analysis and gross animal dissection.

Prerequisite: (BIOL106 AND BIOL107)

Corequisite: None

BIOL245 Marine Invertebrates

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to utilize the marine invertebrate taxa to introduce students to the unique specializations that animals have evolved which allow them to successfully carry out the processes necessary for life and to exploit a wide variety of marine habitats. Major trends in invertebrate evolution will be used to illustrate the historical constraints upon these solutions and the necessity of narrative explanations of form and function in animals. It is assumed that each student has been introduced to the major taxa of animals in a prior introductory zoology course. Taxonomy will be used as a heuristic tool, but will not be stressed as a separate subject. This class will be taught during summer session at the Wallops Island Campus of the Marine Science Consortium by faculty from various member universities.

Prerequisite: (BIOL106 AND BIOL107 AND BIOL240)

Corequisite: None

BIOL300 Plant Physiology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course presents a treatment of central topics in modern plant physiology. Topics will include: plant-cell biology, ion transport, water relations, translocations, respiration, photosynthesis, mineral nutrition, nitrogen metabolism, plant hormones, senescence and abscission, stress physiology, and photomorphogenesis. Laboratory exercises are designed to demonstrate physiological processes in plants and introduce basic and advanced techniques used in plant physiological research.

Prerequisite: (BIOL106 AND BIOL107 AND BIOL206 AND CHEM120 AND CHEM121)

Corequisite: None

BIOL301 Behavior of Marine Organisms

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Concepts of ethology; discussion and observation of the influences of external and internal factors on the regulation and control of behavior of organisms living in the marine coastal environment. This class will be taught during summer session at the Wallops Island Campus of the Marine Science Consortium by faculty from various member universities.

Prerequisite: (BIOL106 AND BIOL107)

Corequisite: None

BIOL302 Developmental Biology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of classic embryology as well as relevant findings in cytogenetics, cell and molecular biology, and biochemistry, as it relates to structural and functional changes in molecules, cells, tissues, and organs during developmental cycles of plants and animals. Labs will include developmental study of living organisms as well as the study of prepared stages of development.

Prerequisite: (BIOL106 AND BIOL107 AND BIOL202)

Corequisite: None

BIOL303 Vertebrate Endocrinology

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

A survey courses of the major endocrine systems in vertebrates. An introduction to the chemistry and cellular mechanisms of action of different hormones is followed by in-depth discussions of the physiological effects of hormones. Topics include hypothalamic-pituitary interactions, reproduction, growth, osmoregulation, digestion and metabolism, and stress. Mammalian endocrinology is emphasized with discussion of important species differences in endocrine systems.

Prerequisite: (BIOL106 AND BIOL107 AND BIOL202) OR (BIOL106 AND BIOL107 AND BIOL240)

Corequisite: None

BIOL305 Ichthyology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is an introduction to the study of evolution, taxonomy and morphology of fishes. Emphasis is placed on biodiversity, morphology, and conservation of fishes. Lecture topics include the nomenclature, history and techniques of both ichthyology and fisheries biology. Laboratory emphasis will be on identification, dissection, and the standard techniques used in field collections.

Prerequisite: (BIOL106 AND BIOL107 AND BIOL240)

Corequisite: None

BIOL309 Ecology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to ecology. Emphasis is placed on evolutionary and classic ecology and effects of human society on natural systems. Topics include energy flow, nutrient recycling, and their influence on the distribution and abundance of organisms. Population studies include genetics, growth, age structure, density, and r and K selection. Community topics include competitive interactions, species diversity, community similarity, and keystone species. Field data collection and statistical techniques for data interpretation are treated in laboratory.

Prerequisite: (BIOL106 AND BIOL107)

Corequisite: None

BIOL310 Immunology

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

This non-laboratory course is intended to be an introduction to the study of immunology. The components of the immune system, both cellular and humoral, and the immune implications of transplantation, cancer, allergies, and infections will be included. Immunopathology, such as immunodeficiency and autoimmune diseases, will be covered.

Prerequisite: (BIOL106 AND BIOL107 AND BIOL202 AND BIOL340)

Corequisite: None

BIOL312 Marine Botany

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

This course is the study of the primary producers of the ocean, estuaries and terrestrial margins. This includes the study of phytoplankton, benthic macrophytes, salt marsh macrophytes, and other edge communities like salt flats, mangroves and dunes. Although taxonomy will be important, it is not the sole focus of the course. Plant physiology and ecology will be stressed. The laboratory portion of the course will stress practical methods of measurement of the plants and their environment. This includes voucher production and specimen preservation, basic physical and chemical methods of abiotic environment measurement, growth and constituent analysis of plant tissue, chlorophyll analysis and wet and dry weight determination for biomass. This class will be taught during summer sessions at the Wallops Island Campus of the Marine Science Consortium by faculty from various member universities.

Prerequisite: (BIOL106 AND BIOL107 AND BIOL206 AND CHEM120)

Corequisite: None

BIOL315 Comparative Vertebrate Anatomy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduction to the study of the comparative anatomy of the Vertebrata. Emphasis is on form and function of the vertebrate classes with respect to each other and with respect to other subphyla, especially cephalochordates, within the phylum Chordata. The

evolution of structure and function of the vertebrate classes is considered on a system by system basis. Comparative dissections of specimens from selected vertebrate classes will be carried out.

Prerequisite: (BIOL106 AND BIOL107)

Corequisite: None

BIOL317 Mycology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A detailed examination of mushrooms, molds, and human mycoses, including an introduction to fungal ecology and assessment of fungal classification, as well as molecular systematics and an overview of medical significance. The course utilizes hands-on student-driven, inquiry-based practices. Students will use scientific processes and procedures, data analysis, and research tools to investigate fungal morphogenesis, molecular diagnostics, culture techniques, ecological relationships, and human pathogenesis.

Prerequisite: (BIOL202 AND CHEM121)

Corequisite: None

BIOL321 Marine Molecular Technology: Applications for Management and Forensics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students will gain an overview of modern molecular technology and how it can be applied to the management of marine organisms and the forensics field. The laboratory component will allow students to learn some of the most widely used techniques and instrumentation in the molecular field.

Prerequisite: (BIOL106 AND BIOL107)

Corequisite: None

BIOL323 Bioinformatics and Genomics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces students to the recent technological advances in the life sciences that allow DNA sequencing of entire genomes, as well as analysis of the gene products of whole genomes simultaneously in one experiment. Topics include the structure and mechanics of the eukaryotic genome, transcriptome, and proteome in detail, with emphasis on hands-on exercises using public databases and software to extract, analyze and manipulate DNA and protein sequences.

Prerequisite: (BIOL202)

Corequisite: None

BIOL328 Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This seminar fulfills the natural and mathematical science seminar requirement in general education for the Bachelor of Arts degree; it does not fulfill biology majors course requirements but may be selected as a general education elective by biology majors. Topics studied each semester vary, but have included selected readings on ethics in science, evolution, genetics and genetic engineering, behavior, the brain, physiology, medicine and the world's environment. Assigned readings are used as a starting point for further student research and presentations. The interrelationships of biology with other disciplines such as economics, political science, and history are considered. A primary goal of this seminar is to increase the student's exposure to some contemporary topics of biology.

Prerequisite: None

Corequisite: None

BIOL330 Cellular & Molecular Biology

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4sh]

An in-depth study of the chemicals, organelles, and molecular genetics of cells. Lectures and a fifteen-week cloning laboratory give theoretical and hands-on experience in advanced molecular techniques, such as gel electrophoresis, DNA isolation,

Prerequisite: (BIOL202 AND CHEM221)

Corequisite: None

BIOL340 Microbiology

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

A study of the anatomy, physiology, and taxonomy of microorganisms with a primary emphasis on prokaryotes. The laboratory component provides critical hands-on experience in standard bacteriological techniques involving the handling, cultivation, isolation, and identification of microorganisms. Additional emphasis will be placed on the role of bacteria, viruses, and other microorganisms in environmental and public health issues.

Prerequisite: (BIOL106 AND BIOL107 AND BIOL202 AND CHEM121)

Corequisite: None

BIOL345 Advanced DNA Methods

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Prepares students for research and DNA forensics careers by presenting the theory and methods associated with characterizing organisms using modern DNA-based methods such as genotyping and sequencing. The laboratory techniques in this class can be used for human identification, species verification, parentage testing, and evolutionary research. Laboratory exercises and lectures cover sample preparation, PCR, theory and operation of the ABI 310 Genetic Analyzer, interpretation of results, and troubleshooting.

Prerequisite: (BIOL202) OR (BIOL330)

Corequisite: None

BIOL400 Ecology of Marine Plankton

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the phytoplankton and zooplankton in marine and brackish environments. In laboratory qualitative and quantitative comparisons will be made between the planktonic populations of various types of habitats in relation to primary and secondary productivity. This class will be taught during summer session at the Wallops Island Campus of the Marine Science Consortium by faculty from various member universities.

Prerequisite: (BIOL106 AND BIOL107 AND BIOL309)

Corequisite: None

BIOL402 Biological Evolution

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Intended for students interested in examining in detail the phenomenon of biological evolution. Although topics such as Cultural Evolution and Creationism will be considered briefly, the focus of this offering will be evolution as manifest in natural, biological systems. Topics to be presented via lecture and student presentation will include Population Genetics, Darwinism, Natural Selection, Sexual Selection and Altruism, Molecular Evolution, Human Origins and Evolution and Extinction.

Prerequisite: (BIOL202)

Corequisite: None

BIOL403 Coral Reef Ecology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of coral reef structure, formation, types, and the relationships of reef organisms to their environment. Emphasis is given to species diversity, identification, symbioses, and effects of temperature, salinity, light, nutrient concentration, predation, and competition on the abundance and distribution of coral reef organisms. This class will be taught during summer sessions at the Wallops Island Campus of the Marine Science Consortium by faculty from various member universities.

Prerequisite: (BIOL106 AND BIOL107)

Corequisite: None

BIOL405 Field Ecology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An advanced study of terrestrial community ecology including interactions between animal and plant populations. Special emphasis will be placed on standard techniques for estimating population size of various taxa, sampling plant community structure and statistical analysis and written interpretation of data.

Prerequisite: (BIOL309)

Corequisite: None

BIOL409 Ornithology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of identification of birds in the field, by study skins and by song. It includes study of basic bird biology, evolution, natural history, ecology, research methodologies, biodiversity and conservation.

Prerequisite: (BIOL106 AND BIOL107)

Corequisite: None

BIOL410 Organismal Physiology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of homeostatic mechanisms and systems in organisms and their relation to fundamental chemical and physical events in cells. Topics such as bioenergetics, osmoregulation, movement, and information processing are discussed as they relate to the function of organisms.

Prerequisite: (BIOL106 AND BIOL107 AND CHEM121)

Corequisite: None

BIOL411 Aquatic Biology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Flora and fauna of fresh water ecosystems. Emphasis on the biotic, physical and chemical characteristics of lotic and lentic systems and how these may affect abundance, distribution, and evolution within aquatic communities. Ecological effects of water pollution and some possible solutions for our increasing world problems. Laboratory will stress use of keys, field methods of water analysis, and applied techniques of individual scientific research.

Prerequisite: (BIOL106 AND BIOL107 AND CHEM121)

Corequisite: None

BIOL413 Entomology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A broadly balanced introduction to the insect world including structure and function, life cycles, habits, reproduction and development, disease relationships and agricultural implications. Students will be expected to collect and identify insect specimens.

Prerequisite: (BIOL106 AND BIOL107)

Corequisite: None

BIOL415 Environmental Policy & Regulations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A review of significant United States Federal and Pennsylvania legislation and regulations pertinent to the study, protection and management of our biological resources. The legislation and rulemaking processes relevant to environmental issues will be investigated. The biological basis for resource management decisions and the role of the scientist in advocating, writing and implementing environmental legislation and regulations will be examined in detail.

Prerequisite: (BIOL309)

Corequisite: None

BIOL421 Marine Mammals

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A study of the distribution, population ecology, behavior, physiology and adaptations of marine mammals. Student projects will entail collecting physiological and behavioral data at field sites and at facilities studying marine mammals.

Prerequisite: (BIOL106 AND BIOL107)

Corequisite: None

BIOL422 Biological Oceanography

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Investigates the interactions among ocean communities (planktonic, benthic and nektonic) and the marine environment (chemical and physical). The effects of the environment on the distribution and abundance of marine organisms as well as their effect on the environment are emphasized. This class will be taught during summer sessions at the Wallops Island Campus of the Marine Science Consortium by faculty from various member universities.

Prerequisite: (BIOL106 AND BIOL107)

Corequisite: None

BIOL425 Environmental Toxicology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to environmental toxicology and an interdisciplinary study of the major classes of pollutants as well as ecotoxicology testing methods. Focus is on the effects of environmental toxins on living organisms and the ecosystem.

Prerequisite: (BIOL309 AND CHEM205) OR (BIOL309 AND CHEM220)

Corequisite: None

BIOL440 Environmental Microbiology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides a fundamental knowledge base of general microbiology, microbial ecology, and specific microbial processes essential to many sub-disciplines of environmental microbiology. Through intensive discussions, applied research investigations, and hands-on laboratory- and field-based experiences, students will be introduced to a variety of topics that are central to understanding microbial diversity and microbial evolution.

Prerequisite: (BIOL340 AND CHEM205) OR (BIOL340 AND CHEM220)

Corequisite: None

BIOL450 Biology Senior Seminar

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

A discussion-based course in which students read and critically evaluate journal articles, then present seminars and lead discussions on the articles. Students are also required to submit a research proposal on a topic agreed upon with the instructor. Themes and topics will vary with the instructor.

Prerequisite: None

Corequisite: None

BIOL628 Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Topics studied each semester vary, but have included selected readings on ethics in science, evolution, genetics and genetic engineering, behavior, the brain, physiology, medicine and the world's environment. Assigned readings are used as a starting point for further student research and presentations. The interrelationship of biology with other disciplines such as economics, political science, and history are considered. A primary goal of this seminar is to increase the student's exposure to some contemporary topics of biology. Additional coursework will be required for graduate level.

Prerequisite: None

Corequisite: None

CHEM101 Chemistry in the Environment

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to provide students with an introduction to chemical principles as they apply to important issues in everyday life. The American Chemical Society program Chemistry in Context serves as the basis. The laboratory experience emphasizes the scientific method and is designed to reinforce the topics from the lecture. Students make real world measurements as part of investigations of their environment and the applications of chemistry to their lives. Designed for students who have had no or limited high school chemistry. Does not satisfy requirements for a natural science major or minor. Fulfills General Education Requirements.

Prerequisite: None
Corequisite: None

CHEM103 The Chemistry of Art

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Explore the intersection of chemistry with the visual arts. Basic principles of chemistry will be applied to the topics of color, paint, paper, clay, glass, metals, photography, and art restoration. Important chemical concepts and safety concerns will be investigated to learn how to properly handle art materials. Introduces the chemical and physical properties. Laboratory investigation will reveal how these properties change when substances are mixed.

Prerequisite: None
Corequisite: None

CHEM105 Forensic Chemistry

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to chemical principles as they apply to forensic investigations. By applying the scientific method to these basic principles, students will investigate the role of chemistry in solving crimes. The laboratory experience is designed to reinforce the scientific method and the topics from the lecture. Students make real world determinations as they investigate and apply chemistry to their lives. Meets general education lab science requirement, except for a natural science major or minor.

Prerequisite: None
Corequisite: None

CHEM111 Chemistry of Nutrition

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the chemistry of nutrition emphasizing nutrients and their interactions in the body. The chemical composition, energy value and by-products of food elements and water will be related to the needs of the human system. Nutrition will be studied not only from the point of view of how to get the necessities of life, but also what effect they have on the human being.

Prerequisite: None
Corequisite: None

CHEM120 Principles of Chemistry 1

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

The first of two semesters of a standard general chemistry sequence. Topics include measurement and dimensional analysis, atomic and molecular structure, mole and stoichiometry calculations, gas laws, thermochemistry, introductory quantum mechanics, electron configuration and periodicity. The chemistry laboratory work is introductory in nature and follows several of the lecture topics.

Prerequisite: (MATH112) OR (MATH141) OR (MATH142) OR (MATH113)
Corequisite: None

CHEM121 Principles of Chemistry 2

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

The second of two semesters of a standard general chemistry sequence. Topics include solids and liquids, solutions and solubility, kinetics, equilibrium, acids and bases, spontaneity and free energy, electrochemistry and nuclear chemistry. The chemistry laboratory work is introductory in nature and follows several of the lecture topics. Qualitative analysis is included as part of the laboratory experience.

Prerequisite: (CHEM120)
Corequisite: None

CHEM205 Introduction Organic Chemistry

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4sh]

An introduction to the subject of organic chemistry for students in majors that need some basic knowledge of organic chemistry. This course uses an integrated approach to the chemistry of organic compounds and emphasizes a problem-solving approach to the subject. Many examples of biologically important molecules will be used. The laboratory segment of the course introduces the

student to the physical and chemical properties of organic compounds, the techniques used to separate and purify organic compounds, the synthesis of selected organic compounds, and the identification of unknowns by their physical and chemical behavior. Proper handling of chemicals is stressed throughout the course.

Prerequisite: (CHEM121)

Corequisite: None

CHEM220 Organic Chemistry 1

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

An integrated course covering the properties, reactions, and preparations of both aliphatic and aromatic compounds from the functional group approach. Explanations given in terms of mechanisms, rearrangements, stereochemistry, and energy diagrams. Lab consists of introduction to techniques of separation, some representative preparations including a sequence, and the identification of unknowns by their chemical behavior.

Prerequisite: (CHEM121)

Corequisite: None

CHEM221 Organic Chemistry 2

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

CHEM221 is a continuation of CHEM220. Relies heavily on concepts and laboratory techniques learned in CHEM220. Students are encouraged to derive from CHEM220 the fundamental concepts underlying the reactions, mechanisms and synthesis of organic compounds presented in CHEM221. The chemistry of carbonyl compounds and aromatic compounds is emphasized. Laboratory experiments emphasize the identification of unknowns by their physical and chemical behavior and the synthesis of organic compounds. Design of experimental procedure will be stressed.

Prerequisite: (CHEM220)

Corequisite: None

CHEM301 Inorganic Chemistry

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to fundamental concepts of inorganic chemistry including atomic and molecular structure, bonding theories, group theory, coordination chemistry and descriptive chemistry of the elements.

Prerequisite: (CHEM221)

Corequisite: None

CHEM302 Introduction to Computational Chemistry

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

An introduction to the field of computational chemistry including molecular mechanical, semi-empirical, ab initio wavefunction, and density functional modeling of chemical systems. Two goals of this course are to enable students to use computational chemistry in their studies and to be critical consumers of computational chemistry results in scientific literature.

Prerequisite: (CHEM221 AND MATH141)

Corequisite: (PHYS131) OR (PHYS171)

CHEM316 Quantitative Analysis

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

An introduction to statistical analysis of experimental data, validation of analytical methods, gravimetric analysis, potentiometric measurements, and electrodes. An advanced examination of stoichiometric calculations, chemical equilibrium, acid-base equilibria, acid-base titrations, and complexometric reactions/titrations. Laboratory experimentation involves titrations, gravimetric analysis, electrochemical measurements, and statistical analysis.

Prerequisite: (CHEM121)

Corequisite: None

CHEM317 Instrumental Analysis

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4sh]

Fundamentals of spectroscopy, chromatography, electrochemistry, and mass spectrometry. Lecture topics include data treatment, data interpretation, theory of the underlying principles, and basic operating principles. Special attention is given to how these techniques are used to solve analytical problems, examples being taken from other areas of science. Laboratory experiments focus on the operation, maintenance, and optimization of instrumentation and interpretation of laboratory data

Prerequisite: (CHEM316) OR (CHEM421)

Corequisite: None

CHEM320 Physical Chemistry 1

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

A study of the content and transfer of energy in physical and chemical reactions. The laws of thermodynamics, and the concepts of work, enthalpy, entropy, and free energy are defined and given in a detailed quantitative treatment. The course also provides a detailed introduction to the topics of kinetics and reaction dynamics. The laboratory portion of the course is designed to provide students experience with a broad range of the topics covered during the course.

Prerequisite: (CHEM220 AND MATH141 AND PHYS130) OR (CHEM220 AND MATH141 AND PHYS170)

Corequisite: (CHEM316 ANDPHYS131) OR (CHEM316 ANDPHYS171)

CHEM321 Quantum Chemistry and Spectroscopy

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

An exploration of the application of quantum mechanics to understanding chemical phenomena, with special emphasis on chemical structure and spectroscopy.

Prerequisite: (MATH142 AND PHYS171) OR (MATH142 AND PHYS131)

Corequisite: (CHEM221)

CHEM328 Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This seminar explores various topics in chemistry. Specific topic selection is based on the expertise and interest of the faculty.

Prerequisite: None

Corequisite: None

CHEM330 Chemical Literature

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Introduces students to important library resources in chemical research (i.e. handbooks, reviews, monographs, compendiums and abstracts). Emphasis will be given to development of systematic library search strategies and information retrieval from library resources. Special emphasis will be given to instruction in the hands-on use of computerized scientific databases. Pre- or Co-requisite: CHEM221 or permission of instructor.

Prerequisite: None

Corequisite: (CHEM221)

CHEM350 Polymer Chemistry

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Major topics in polymer chemistry will be examined. Structure, synthesis, characterization, properties, and uses of polymers will be discussed. Much of the focus will be on polymers used or produced in industry.

Prerequisite: (CHEM221)

Corequisite: None

CHEM404 Spectroscopic Methods of Molecular Structure Determination

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Focuses on the interpretation of spectral data. Theory of each spectroscopic method, sample preparation, instrumentation and applications of each method will also be discussed. Problems will be presented in class to demonstrate logical approaches to solving spectral problems. Student in-class problems will be used to generate open discussion. Spectral problems will be used to reinforce

concepts and approaches to determining the structure of unknowns. Examples from both organic and inorganic chemistry will be used.

Prerequisite: (CHEM320)

Corequisite: (CHEM321)

CHEM410 Biochemistry

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Provides an introduction to modern biochemistry at the molecular level. Emphasis will be given to the structure and function of the major classes of biomolecules (proteins, nucleic acids, carbohydrates and lipids) and the bioenergetics of metabolic pathways. The laboratory portion will include the application of modern biochemical methods of analysis to the problems of: purification and characterization of biomolecules, quantitative measurement of enzyme activities, and the evaluation of metabolic processes.

Prerequisite: (CHEM221) OR (CHEM205)

Corequisite: None

CHEM415 Biochemistry 2

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Presents an overview of the metabolic transformations of fatty acids and the complex lipids, amino acids and the purine and pyrimidine nucleotides. Emphasis will be given to biological synthesis of the building blocks of the major classes of biomolecules. The course will also provide an introduction to cellular signaling and specialized topics in biochemistry. The laboratory portion will expand on the techniques learned in first semester with application to independent/small group projects.

Prerequisite: (CHEM410)

Corequisite: None

CHEM430 Advanced Organic Chemistry

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

An in-depth study of organic chemistry with major emphasis on physical aspects as applied to syntheses, spectroscopy, structure elucidation, and reaction mechanisms. The laboratory component will emphasize advanced experimental techniques used in synthesis, mechanism elucidation, and the characterization of organic compounds.

Prerequisite: None

Corequisite: None

CHEM440 Advanced Inorganic Chemistry

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

An examination of major topics in descriptive and theoretical inorganic chemistry including acid-base chemistry, oxidation and reduction, chemistry of transition metals, organometallic chemistry, catalysis, inorganic clusters, solid state and bioinorganic chemistry. The classical and modern aspects of the chemistry of the elements will be discussed. The laboratory component emphasizes advanced experimental techniques in the synthesis and characterization of inorganic compounds.

Prerequisite: (CHEM301)

Corequisite: None

CHEM628 Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This seminar explores various topics in chemistry. Specific topic selection is based on the expertise and interest of the faculty.

Prerequisite: None

Corequisite: None

CHIN101 Chinese 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to the basics of the foreign language in question; the course is especially designed for students who wish to spend a semester at a university in a country where the language is spoken. The primary emphasis of the course will be on developing basic listening, reading and speaking skills in the language and increasing the students' awareness of the foreign culture.

Prerequisite: None
Corequisite: None

CHIN102 Chinese 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of the foreign language in question, building on the material learned in the level I course. Especially designed for students who wish to improve their basic knowledge of the language in order to be able to study at the foreign university that supplied the instructor (completion of this course followed by a semester of study abroad at the university will satisfy the foreign language requirement).

Prerequisite: None
Corequisite: None

CHIN201 Chinese 3

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of the foreign language in question, building upon the material learned in the Level 2 course and especially designed for students who wish to enhance their knowledge of that language.

Prerequisite: None
Corequisite: None

CHIN202 Chinese 4

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of the foreign language in question, building upon the material learned in the Level 1, 2 and 3 courses and especially designed for students who wish to enhance their knowledge of that language.

Prerequisite: None
Corequisite: None

CHIN328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Prerequisite: None
Corequisite: None

COMM100 Introduction to Communication

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the process of communication on the personal, group, and mass levels. Survey and analysis of the basic communication process and techniques as applied to various communication situations. Consideration of both the art and technical aspects of communication. Meets general education speech requirement.

Prerequisite: None
Corequisite: None

COMM102 Fundamentals of Public Speaking

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to develop the study and performance of speech as a means of communication, self-expression, and social control in a diverse society while incorporating theory and techniques of speaking and listening into a variety of speech activities. Fulfills General Education Requirements.

Prerequisite: None
Corequisite: None

COMM103 Small Group Communication

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The theory and practice of small group communication. Students learn the techniques of how to lead a discussion and how to participate in a discussion. The topics of discussion are chosen primarily from current events. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

COMM104 Interpersonal Communication

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Covers the cognitive, the affective and the skill levels involved in the interpersonal communication process. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

COMM110 Speech for Foreign Students

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to enhance the speech of students for who English is a second language. Through speaking activities, both in and out of class, students focus on naturalizing their spoken English to a more understandable and useful tool of communication. Emphasis is placed on neutralizing non-English pronunciation, melody pattern and phonation.

Prerequisite: None

Corequisite: None

COMM150 Intro Mass Communication

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Survey of mass communication with emphasis on historical development, economic structure, organization, function, language, culture, and the effects of the media in society today. The course will also focus, to a lesser degree, on the differences between mass communication and other forms of communication.

Prerequisite: None

Corequisite: None

COMM190 Writing for the Mass Media

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines basic principles of effective journalistic composition, emphasizing in particular the development and organization of ideas relevant to news events and the expression of those ideas in clear expository prose. Students will read a variety of prose models and write a specified number of news articles. The news writing process includes researching, interviewing, drafting, revising, and submissions in a timely fashion.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

COMM200 Voice and Articulation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Improvement of the physical act of speaking through work on diction, projection, vocal quality, pitch, and time factors. Physiological, phonetic, and psychological foundations considered. Students will be introduced to the rudiments of the international phonetic alphabet. Individual and group activities are an integral part of this course. Class attendance is a critical part of the successful completion of this course.

Prerequisite: None

Corequisite: None

COMM202 Supervised Communication Practicum

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 6 sh]

The primary focus is upon pre-professional communication praxis. Close supervision by journalism and mass communication faculty members is required to ensure a high quality field experience.

Prerequisite: (COMM190)

Corequisite: None

COMM205 Computer-Mediated Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students will use techniques of computer word-processing and other applications to compose sophisticated written documents.

Primary focus is on using computers to improve design, composition, editing, and revision skills.

Prerequisite: (CISC150 AND ENGL100) OR (CISC150 AND HONR111)

Corequisite: None

COMM208 Communication Theory

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Surveys dominant theories in interpersonal, group, public, and mass communication. Emphasis is placed on both establishing frameworks that provide a contest for each theory and demonstrating how theories help illustrate the process of communication in applied settings.

Prerequisite: (COMM100) OR (COMM102) OR (COMM103) OR (COMM104)

Corequisite: None

COMM210 Gender and the Mass Media

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of significant issues and representational practices concerning the relationship among women, men, and the mass media. Students will examine the sociological, historical, and cultural construction of gender and the influence of the media upon these processes.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

COMM215 Sports Broadcasting

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examination of the industry, history, practice, ethics and theory of sports broadcasting. Particular attention given to sportscasts, play-by-play and color commentaries and production techniques.

Prerequisite: None

Corequisite: None

COMM220 Oral Interpretation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Theory and techniques of oral interpretation. Class activities include selection, analysis, preparation and presentations of selections from prose fiction, drama and poetry.

Prerequisite: None

Corequisite: None

COMM240 Online Public Relations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines new media technologies used to publish public relations information on the Internet. Primary foci are gathering data, constructing multi-media public relations releases, and publishing on a website documents with embedded audio and video. Students gain practical experience in delivering information electronically.

Prerequisite: (COMM190) OR (JOUR190)

Corequisite: None

COMM250 The Movies Look at the Media Professions

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Encourage students to think critically about the media professions - journalism, advertising, public relations, and the entertainment industries - by watching and analyzing movies about them. Students will compare these filmic representations with scholarly and critical readings that explore how media professionals and others view the work that they do.

Prerequisite: (COMM150)

Corequisite: None

COMM290 News Reporting

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the practical knowledge and skills used in reporting news. Students will build upon news writing skills developed in COMM190 by concentrating on the use of news gathering techniques, including research and interviewing.

Prerequisite: (COMM190)

Corequisite: None

COMM292 Principles of Advertising

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the psychology, sociology, economics, and philosophy of advertising with special reference to planning, production, and testing of copy. The course focuses on the role and impact of advertising on society.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

COMM295 Radio Journalism

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The development of skills in reporting and writing for radio. Use of cassette and tape cartridge machines, and manual and electronic editing are introduced.

Prerequisite: (COMM190)

Corequisite: None

COMM300 Organizational Communication

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to examine verbal and written communication that occurs in organizations. Included in this focus are, among other topics, informal and formal methods of communication, power bases, leadership and corporate communication flow.

Prerequisite: None

Corequisite: None

COMM301 Listening and Conflict Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces students to concepts of listening and teaches them how to manage conflicts through a variety of effective methods. Students will develop skills involved in the listening process to increase their understanding of others' thoughts and feelings and gather accurate information. They will overcome barriers to effective listening and be able to provide more accurate responses to questions. Students study and broaden their own conflict management styles. Students learn the principles of mediation and negotiation.

Prerequisite: (COMM102) OR (COMM103) OR (COMM104)

Corequisite: None

COMM303 Argumentation & Debate

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to improve analytical skills in construction of arguments and the debating skills of defending those arguments, and to develop the critical listening skills needed to analyze and evaluate the arguments of others. A study of the theories of argumentation and their practical application to debate.

Prerequisite: (COMM1**) OR (SPCH1**)

Corequisite: None

COMM304 Intercultural Communication

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces verbal and non-verbal intercultural communication as they apply to a variety of cultures, including American subcultures. Discussion topics will include: the impact that cultural differences have on language, culture and communication, value differences, non-domestic cultures, verbal and non-verbal interaction. Students will investigate the implications of intercultural communication on business, education and tourism.

Prerequisite: (COMM102) OR (COMM103) OR (COMM104) OR (COMM110) OR (COMM202)

Corequisite: None

COMM305 Television Criticism

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of contemporary critical methods used to examine the aesthetic and sociological aspects of television. Extensive reading in critical literature is supplemented by analyses of selected television programs.

Prerequisite: (COMM190)

Corequisite: None

COMM310 Television Journalism

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Development of skills in reporting, writing, and assembling visual materials for television news. Use of studio and portable cameras, microphones, and electronic editing equipment.

Prerequisite: (COMM295)

Corequisite: None

COMM315 Corporate Video Production

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to the planning and production of video programs for business, industry, and nonprofit institutions. Focus is on the use of video as a promotions tool in the business sector. Recommended for students with an interest in public relations.

Prerequisite: (COMM295)

Corequisite: None

COMM317 Radio Workshop

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A workshop providing direct practical experience in radio. Develops skills in producing dramatic musical productions as well as commercials and Public Service Announcements.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

COMM318 Video Workshop

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the basic principles and skills associated with effective television performance. The course emphasizes those skills necessary for practicing television journalists.

Prerequisite: (COMM190)

Corequisite: None

COMM320 Business Communication

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Advanced practice in effective speaking and listening: reports and sales presentations, policy speeches, and conference leadership techniques employed in business and industry. Special attention is paid to the vital role management plays in developing, initiating and maintaining effective communication within the business/industrial setting.

Prerequisite: None

Corequisite: None

COMM325 Film Today

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course will examine current and recent cinema, critically evaluating films of all kinds. These will include products of the American film industry, independent, documentary, and experimental films, films made for television and video-cassette, and foreign films released in this country.

Prerequisite: (COMM150)

Corequisite: None

COMM328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A contextual or situational approach to communication studies with emphasis on investigation, analysis, and critique. Topics might include, among others, political rhetoric in a presidential election, communication in the workplace, current issues in cross-cultural communication, modern trends in relationship development, and forensic methods for educators.

Prerequisite: (COMM1**)

Corequisite: None

COMM330 Cultural Studies in Mass Communication

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An examination of the issues of access and representation in the mass media. Of central interest are the constraints and possibilities for change in the media industries' structures, practices, and relationships with social change coalitions concerned about gender, race, ethnicity, class, sexual orientation, and other markers of cultural identity.

Prerequisite: (COMM150)

Corequisite: None

COMM333 Public Relations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The nature and scope of public relations; the principles and techniques underlying the practice of public relations. Emphasis on the public relations practitioner as a communication specialist who explores and maintains channels of communication between organizations and the public.

Prerequisite: (COMM102) OR (COMM103)

Corequisite: None

COMM340 Advertising Design

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Advertisements that can be designed on a computer constitute the content of the course. Enticement, composition, and impact form the three theoretical areas upon which advertising design will focus.

Prerequisite: (COMM190)

Corequisite: None

COMM345 Advanced Public Speaking

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Advanced study of the theory and practice of oral discourse. Projects, assignments, and coursework designed to provide students with the opportunity to develop skills in oral communication beyond the level achieved in Fundamentals of Public Speaking.

Prerequisite: (MCOM100) OR (SPCH100) OR (SPCH102) OR (SPCH103) OR (SPCH104) OR (COMM100) OR (COMM102) OR (COMM103) OR (COMM104)

Corequisite: None

COMM350 Introduction to Communication Research

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on the basics of research in the field of communication. Through reading, class discussion, lecture, exercises and assignments, students will explore how to write a professional, academic or business research proposal. In addition, students will critically analyze others' research.

Prerequisite: None

Corequisite: None

COMM355 Environmental Journalism

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Presents the writing techniques students need to communicate simply and effectively for the media about science, environment, health and medical topics.

Prerequisite: (COMM290)

Corequisite: None

COMM360 Communication Analysis

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Analyzes the persuasion that impacts us all, often beneath the level of awareness. Students explore the process and purpose of analyzing and critiquing messages that affect social and political stability; self-fulfillment and personal happiness; and meaningful and healthy relationships. Students make connections between the rhetorical message and ideas such as quality, value, goodness, and rightness to ensure that the power of rhetoric is used competently.

Prerequisite: (COMM1**) OR (COMM1**)

Corequisite: None

COMM370 Topics in Journalism

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A topical approach to applied journalism practice designed to explore specialized knowledge and skill pertinent to the work of media practitioners. Topics might include, among others, business news, education news, agricultural public relations, television directing, concepts of computer graphics for print and broadcast, and desktop publishing.

Prerequisite: (COMM290)

Corequisite: None

COMM375 Persuasion

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the factors related to attitude-change through oral communication. General theories of persuasion and an introduction to modern experimental research in the area included.

Prerequisite: (COMM102) OR (COMM103) OR (COMM104) OR (COMM202)

Corequisite: None

COMM390 Feature Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focus is on writing issue-oriented features and personality profiles. Attention given to structure, style, and content of features and to various ways to begin and end features. Also discussed are techniques of fiction writing that can be applied to features.

Prerequisite: (COMM190 AND ENGL100) OR (COMM190 AND HONR111)

Corequisite: None

COMM391 Sports Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A workshop providing direct practical experience in sports writing. Focus is on news gathering and writing techniques. Attention also given to ethics, business and financial aspects of sports, sports columns, investigative sports writing, sports features, and the history of sports writing.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

COMM392 Documentary Film

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the art and development of non-fiction film, examining the major documentary film movements and filmmakers.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

COMM393 News Editing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Editing copy and designing news pages and news programs constitute the core of this course. In addition, some attention will be given to the elements of typography and computer usage in the newsroom.

Prerequisite: (COMM190 AND ENGL100) OR (COMM190 AND HONR111)

Corequisite: None

COMM394 Magazine Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A workshop providing direct practice experience in magazine writing. Researching, writing, and marketing professional magazine articles of various kinds.

Prerequisite: (COMM190)

Corequisite: None

COMM400 Communication Capstone Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to use a workshop format to address communication theories, communication issues as they relate to the public, and practical applications. Students will read, discuss and analyze various communication theories, develop a major research project and a professional portfolio, and explore current issues affecting the industry, including the impact of emerging technologies and matters of professional ethics and responsibility. Topics will be addressed from the perspective of the student's major emphasis. Restricted to students who have completed 60 credits.

Prerequisite: None

Corequisite: None

COMM405 Communication and Responsibility

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to explore the appropriate and effective use of words and actions as they affect our communication and relationships. We discuss theories and standards by which our communicative acts are chosen and evaluated. We discuss responsible communicative choices we make in order to refine our various communicative paradigms. Finally, this course can help communicators deal with the consequences that result from using language and nonverbal communication competently and ethically. Restricted to students who have completed 60 credits or permission of the instructor.

Prerequisite: None

Corequisite: None

COMM450 Opinion Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Writing opinion in the form of editorials and reviews. For editorial writing, the course will use a critical thinking model to analyze social issues; for review writing, it will focus on aesthetic issues in various art forms.

Prerequisite: (COMM190)

Corequisite: None

COMM488 Case Studies in Public Relations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A case study approach to examine concrete public relations settings and situations that illustrate the possibilities and limitations of public relations effectiveness. Students explore the range of strategies that businesses, nonprofit organizations, and government agencies have adopted in varied circumstances and learn how to assess the practical and ethical implications of these strategic choices thus developing an effective public relations management perspective.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

COMM491 Propaganda and Public Opinion

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A detailed study of propaganda and public opinion from World War II to the present. Special emphasis is given to the media of propaganda. The course also focuses on propaganda strategies in industrial and non-industrial countries.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

COMM493 Online Journalism

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines new media technologies used to communicate newsworthy information over the Internet. Primary foci are gathering data and constructing new forms of news. Students gain practical experience in delivering information electronically.

Prerequisite: (COMM190)

Corequisite: None

COMM494 Communication Law & Ethics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A detailed study of First Amendment law as it affects the press, and a survey of broadcast regulations. Students explore the relationships of law and ethics and examine and discuss ethical problems and practices.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

COMM495 Public Relations Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Writing news releases, annual reports, speeches, two-fold brochures, radio scripts, sports backgrounders, print advertisements, and political papers forms the center of this course. In addition, designing newsletters and fund raising packets is considered.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

COMM496 Advertising Campaign Development

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Acquaints students with the major phases involved in the development of an advertising campaign, from market research, creative copy writing and advertising design, to media placement and the testing of advertising effectiveness. Students examine and critique specific advertising campaigns and construct a campaign for a specific client as a major course project.

Prerequisite: (COMM292)

Corequisite: None

COMM605 Communication and Responsibility

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to explore the appropriate and effective use of words and actions as they affect our communication and relationships. Discussion of theories and standards by which our communicative acts are chosen and evaluated. Will enable communicators to deal with the consequences that result from using language and nonverbal communication competently and ethically.

Prerequisite: None

Corequisite: None

COMM628 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A thematic or topical approach to mass communication texts, practices, or policies, with emphasis on analysis, synthesis, and critique. Topics might include, among others, the media and terrorism, media effects and consequences, comparative study of international news processes, trends and issues in photojournalism, and media representations of disability, ethnicity and age.

Prerequisite: None

Corequisite: None

COMM630 Cultural Studies in Mass Communication

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of the issues of access and representation in the mass media. Of central interest are the constraints and possibilities for change in the media industries' structures, practices, and relationships with social change coalitions concerned about gender, race, ethnicity, class, sexual orientation, and other markers of cultural identity.

Prerequisite: None

Corequisite: None

COMM691 Propaganda & Public Opinion

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A detailed study of propaganda and public opinion from World War II to the present. Special emphasis is given to the media of propaganda. The course also focuses on propaganda strategies in industrial and non-industrial countries.

Prerequisite: None

Corequisite: None

COMM694 Communication Law & Ethics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A detailed study of First Amendment law as it affects the press, and a survey of broadcast regulations. Students explore the relationships of law and ethics and examine and discuss ethical problems and practices.

Prerequisite: None

Corequisite: None

COMP119 Freshman Seminar: Introduction to Computing and Problem Solving

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 3 sh]

The first year seminar is designed to introduce the student to the culture and mission of the university within the context of an academic discipline of choice. The course will explore the purpose of one's college education and provide the student an opportunity to become engaged with the academic field of interest. The student will be introduced to basic college learning and study skills in the context of the content area. Through ample class discussion of common readings, the student will engage in active learning. Common co-curricular activities and the incorporation of a peer mentor component will facilitate the first year student's connection with fellow students and faculty in the university community. Restricted to first semester, first year students.

Prerequisite: None

Corequisite: None

COMP150 Introduction to Computers

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides an introduction to computing systems and their applications in modern society. It acquaints students with the organization and operation of computer systems. Students are introduced to a variety of applications such as word processing, spreadsheets, database management, and web development.

Prerequisite: None

Corequisite: None

COMP160 Programming 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Provides an introduction to computing systems and computing facilities at Lock Haven University, and an overview of computer programming as a discipline and profession. Students study algorithm design and development using pseudo code. They implement algorithms using an Object Oriented high level programming language. The emphasis is on Classes, Objects, and Methods and topics include data types and storage, control structures, functions, arrays and files. This course will also provide an introduction to Object Oriented Design of Software and generic Integrated Development Environment.

Prerequisite: (MATH112) OR (MATH113) OR (MATH141)

Corequisite: None

COMP161 Programming 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Continuation of Programming I providing intermediate to advanced programming techniques in the programming language introduced in Programming I. Emphasis is placed on object-oriented techniques and modular design as well as algorithm design involving library objects, advanced techniques for input and output (I/O) and exception handling, and elementary data structures.

Prerequisite: (COMP160)

Corequisite: None

COMP200 Fundamentals of Networking

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces fundamentals of computer networks and the Internet. The TCP/IP protocol stack is introduced and concepts are discussed. Application layer protocols used for FTP, Web and email access, DNS etc are studied using network surveillance tools. Transport layer protocols TCP and UDP are investigated. Students learn the concept of IP address assignment, Router configuration and the physical layer. This course will introduce the students to the workings of the Internet Engineering Task Force and the standardization process.

Prerequisite: (CISC150) OR (COMP119) OR (CISC119) OR (COMP150)

Corequisite: None

COMP202 Introduction to Computer Systems Administration

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on the installation, administration and use of software including a variety of operating systems, virtual machines, disk partitions and file management, application installation, OpenOffice, editors, scheduling task, backup and recovery, and basic scripting for automation of tasks. Additionally, students will acquire introductory knowledge of hardware requirements and components including CPUs, RAM, disk, flash, video and Networking.

Prerequisite: None

Corequisite: (COMP160)

COMP205 Web-Based Application Development

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of business application development using web-based technologies.

Prerequisite: (COMP160)

Corequisite: None

COMP215 Assembler Language

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to assembler language and machine organization. Introduced are the structure of a "byte" machine, the manipulation of data in various forms, the binary and hexadecimal number systems, operations and scaling, integer arithmetic in binary and packed decimal, various comparison and branching ideas, indexing, input/output, subroutines, and interface with high-level languages.

Prerequisite: (COMP161)

Corequisite: None

COMP220 Contemporary Issues in Computing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An examination of the legal, social, and ethical issues that arise from the use of technology and the responsibilities that all technology users, including computer scientists, have with regard to these developments.

Prerequisite: (COMP150) OR (CISC150) OR (COMP160)

Corequisite: None

COMP225 Mobile Application Development

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces the tools and techniques used to develop software applications for mobile devices and platforms. The course will examine topics such as user interface design, application portability, web protocols, software services, security and accessibility. The course will emphasize hands-on development using Google's Android platform.

Prerequisite: (COMP160)

Corequisite: None

COMP230 Discrete Structures and Formal Languages

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides the theoretical computer science foundation to support the success of the computing student. This course includes a study of algorithms, graphs, trees, Boolean expressions, logic networks, and formal models of computation.

Prerequisite: (COMP160 AND MATH107)

Corequisite: None

COMP240 Game Programming

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides a continuation of the concepts introduced in Programming I from the perspective of 2D game programming. Emphasis is placed on object-oriented techniques and modular design. Common algorithms used in game design are introduced, with a focus on utilizing the data structures and generics provided by the Java standard runtime library. Quality assurance, concurrent programming, event-driven programming, and graphical user interface programming are also covered.

Prerequisite: (COMP160)

Corequisite: None

COMP250 Advanced Microcomputer Applications

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Teaches students how to use personal productivity software (including but not limited to word processors, spreadsheets, and databases), to collect data, manage data, analyze data, solve problems and effectively communicate results.

Prerequisite: (COMP150 AND MATH107) OR (CISC150 AND MATH107)

Corequisite: None

COMP255 Database Design

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces students to database design at the enterprise level. Coverage includes the development of logical and conceptual models, translation into the internal model using Structured Query Language (SQL), and creation of database queries.

Prerequisite: (CISC250) OR (COMP160) OR (COMP250)

Corequisite: None

COMP260 Information Technology Project Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Introduces fundamentals of project management using both concept and application. A generic Information Technology Project Methodology (ITPM) is used. The nine areas of the Project Management Institute's Project Management Body of Knowledge (PMBOK) are incorporated.

Prerequisite: (ACCT110 AND CISC250 AND MANG101) OR (ACCT110 AND COMP250 AND MANG101)

Corequisite: None

COMP300 Data Structures and Algorithms

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces the fundamental concepts of data structures, abstractions for organizing and processing data, and the algorithms that evolve from them. Topics include basic data structure types (including stacks, queues, linked lists, hash tables, trees, heaps and graphs) and their applications, algorithms for searching and sorting, the use of object and generic programming techniques for implementation, algorithm analysis and algorithm design strategies including recursion and greedy approaches.

Prerequisite: (COMP161)

Corequisite: None

COMP302 C/C++ for Systems Programming

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces students to C and C++ and includes both procedural and object-oriented programming. Emphasis is placed on the use of Application Programming Interfaces (API) for use with systems, network, and graphics applications.

Prerequisite: (COMP161)

Corequisite: None

COMP304 Data and Computer Communications

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces the student to communications architectures used in the Business and the Services Industry. The network is viewed from an end-to-end perspective as a system of cooperating functional blocks. Covers Public Switched Telephone Network, Voice over IP, Wireless Wide Area Networks, Satellite communications and WAN/MAN technologies using MPLS. Security frameworks, Network Management and protocol vulnerability are topics covered in this course. The student is also introduced to optimization techniques, accounting issues and capacity analysis.

Prerequisite: (CISC200) OR (COMP200)

Corequisite: None

COMP305 Database Application Development

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces the study of development of software applications that incorporate databases. Topics include the development of user and system requirements, analysis of work and data flow, database design and agile project management methods.

Prerequisite: (CISC255) OR (COMP255)

Corequisite: None

COMP306 Systems Analysis and Design

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduction to the systems concept, defining a system, system life cycle and information flow, systems analysis and design considerations, implementation and development of information systems. Through analysis of systems, simulated case studies, the use of CASE software, and the design of an actual business application, students learn the importance of efficient and effective information systems in modern organizations.

Prerequisite: (CISC255) OR (COMP255)

Corequisite: None

COMP315 Network Programming

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Provides students the necessary skill-set to design and implement software that employ Internet Protocols at various layers of the standards-based stack. Students will be introduced to the socket Application Programmer Interface (API), the transport layer, raw sockets that allow network layer programming, and specialized libraries that makes packet creation and injection possible at the data link layer. These skills will prepare students to design and build prototypes operating at various layers of the protocol stack.

Prerequisite: (CISC200) OR (COMP200)

Corequisite: None

COMP320 COBOL Programming for Business

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of business programming techniques with file manipulation and table driven programs using the COBOL programming language.

Prerequisite: (COMP161)

Corequisite: None

COMP322 Database System Administration

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces students to installing and managing a database management system. Topics include installation, performance monitoring and tuning, user management, security, physical storage and backup and recovery techniques.

Prerequisite: (CISC255 AND COMP202) OR (COMP202 AND COMP255)

Corequisite: None

COMP325 Advanced SQL

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces students to advanced topics in Structured Query Language (SQL) such as subqueries, correlated queries, query tuning, and PL/SQL. Difference in SQL implementation between database management systems will also be highlighted.

Prerequisite: (CISC255) OR (COMP255)

Corequisite: None

COMP328 Computer Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Prerequisite: None

Corequisite: None

COMP330 Emerging Business Technologies

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course examines issues related to the availability and use of information systems in the automated business: system identification, analysis and design, cost justification, implementation, training, maintenance, and management from domestic and international perspectives.

Prerequisite: (COMP306) OR (ACCT215) OR (CISC306)

Corequisite: None

COMP400 Computer Architecture

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to give students a basic understanding of the organization and relationship of components of computer systems. Concepts discussed include analysis and design of digital circuits, design of major components of computer systems, and interface of software and hardware in the control of hardware components.

Prerequisite: (COMP215 AND COMP300)

Corequisite: None

COMP402 Algorithm Analysis and Design

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides a survey of classic and modern computer algorithms, demonstrates techniques to analyze algorithm performance and illustrates the design methodologies used to develop computer algorithms.

Prerequisite: (COMP300 AND MATH205 AND MATH211)

Corequisite: None

COMP405 Software Engineering

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course provides an introduction to the engineering principles and practices used in the process of developing modern software systems that are dependable, usable, maintainable and efficient. Students will learn the basic models of software system development including the classic waterfall and spiral models. Students will learn the processes used in these development models including requirements analysis and specification, design, prototyping, implementation, integration and testing and verification and validation. Students will learn what products are produced at each stage including reviews and documents as well as the software itself. Students will be introduced to utilities such as the configuration management software and the computer-aided software engineering (CASE) tools available to support the software development process. Students will also be introduced to concepts in project management including planning and scheduling, risk mitigation, and the use of metrics.

Prerequisite: (COMP300)

Corequisite: None

COMP407 Network Systems Administration

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Imparts skills necessary for configuring, optimizing and administering computer networks. Emphasis on skills needed to translate requirements specifications into operational networks. Course includes the configuration of local and wide area networks (LAN/WAN) and wireless networks, network management protocols and frameworks. An understanding of open standards is promoted in this course. This course emphasizes hands-on experience of network provisioning interfaces and prepares the student for industry-based certification.

Prerequisite: (CISC200)

Corequisite: None

COMP410 Machine Learning and Robotics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces algorithms that allow computers to learn and improve based on the analysis of empirical data gained from experience. Machine learning algorithms will be developed and applied in areas such as gaming and robotics.

Prerequisite: (COMP300)

Corequisite: None

COMP412 Network Security

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces applications and standards of network security. Emphasis on the operation of secure frameworks, system level security and the use of secure protocols. Topics include cryptography; secure applications and secret key management frameworks; intrusion detection; legal and ethical issues, and the dynamics of malicious software. An overview of open standards in this area is also included in this course.

Prerequisite: (CISC200)

Corequisite: None

COMP415 Structure Programming Languages

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Study of language design, language processors, syntax, and semantics. What makes a language good or bad and similarities in different languages? Brief introduction to a variety of high-level languages, such as Pascal, C, SNOBOL, PROLOG, ADA, LISP, MODULA-2, which contain advanced features.

Prerequisite: (COMP300)

Corequisite: None

COMP430 Interactive Graphics Programming

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces the theory and practice of interactive graphics programming. Emphasis on the use of Application Programming Interfaces (APIs) that are available across different systems. Topics in addition to applications programming, include interaction with input devices; geometric transformations and viewing; concepts of lighting and shading, and rendering of images on displays.

Prerequisite: (COMP302)

Corequisite: None

COMP455 Operating Systems

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An investigation of the principles necessary to manage the resources of a computing system and to control the execution of computer programs. Concurrent programming techniques are studied. Concepts to be explored include job management, task management, data management, and types of operating systems.

Prerequisite: (COMP215 AND COMP300)

Corequisite: None

COMP460 Compiler Theory & Design

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to give students a basic understanding of how compilers are constructed. Emphasis is placed on the application of formal language theory to compilers and on the actual methods, techniques and problems that arise in translation and code generation using modern high-level programming languages.

Prerequisite: (COMP215 AND COMP300)

Corequisite: None

COMP465 Data Base Management Systems

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of the various levels of organization of data base systems including the hardware level (state-of-art media, devices, channels, controllers), the physical representation of data, the logical organization of data and the overall structure of large scale information processing systems. A survey of commercial data management products. Applications to management planning and control are included.

Prerequisite: (COMP300)

Corequisite: None

COMP475 Senior Capstone Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of major concepts and topics in Computer Science and Information Systems that encompass the student's concentration of study. As a capstone seminar, this course is an integrating experience that requires students to apply knowledge and skills gained from previous coursework in both the core and their concentration.

Prerequisite: None

Corequisite: None

COMP480 Special Problems

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 3sh]

An in-depth investigation of aspects of computer science. Topics to be determined prior to the semester in which the course is offered.

Prerequisite: (COMP300)

Corequisite: None

CRJS102 Introduction to Criminal Justice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The history, organization, and functions of various components of the criminal justice system. Focuses on the interrelationships among law enforcement agencies, prosecution, courts, correctional processes and institutions, probation, parole, juvenile justice, and other officials and their agencies. Critical thinking is applied to the system and its practices.

Prerequisite: None

Corequisite: None

CRJS205 Drug Abuse

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the use and abuse of drugs in America. The history of such use and abuse, the pharmacology and legalization or criminalization of such drugs, the social response to drug use and abuse, effects of drugs on the body and the role of law enforcement are considered.

Prerequisite: (CRJS102)

Corequisite: None

CRJS210 Diversity in Criminal Justice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Encompasses a critical examination of the issues and problems relating to the administration of justice in a culturally diverse society. Emphasis is placed on the study of gender, race, class, sexual orientation, and ethnicity and the respective challenges these diverse characteristics pose in the various agencies of the criminal justice system. Emphasis is also placed on the opportunities and challenges of providing criminal justice services within a multicultural society. Theoretical perspectives will be included.

Prerequisite: (CRJS102 AND SOCI101)

Corequisite: None

CRJS215 American Gangs: History, Identification and Interdiction

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the social and cultural history of American gangs including the influence and relationship between national, regional and local adult and juvenile gangs. Includes evaluation of gang identification and membership with emphasis on their impact on crime. Emphasis is placed on growing concern within the criminal justice community of the influence and spread of youth gangs and growing hybridization and migration of gangs in terms of location, member diversity and organization.

Prerequisite: (CRJS102 AND SOCI101)

Corequisite: None

CRJS220 Introduction to Conservation Law Enforcement

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the theory and practice of Conservation Law Enforcement. An overview of the conservation law enforcement officer's role and duties in enhancing, protecting, and conserving natural areas and wildlife in the United States, with special focus on Pennsylvania, is provided. Attention is given to the relevant and specific statutory provisions and regulations pertaining to natural resource protection and conservation. Focus is given to unique types of training requirements and risks inherent in this profession.

Prerequisite: None

Corequisite: (SOCI101)

CRJS240 Law Enforcement

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The philosophical and historical background, Constitutional limitations, objectives, and processes in the enforcement of law. The nature and responsibilities of law enforcement are discussed and evaluated, including police accountability, civil liability, and multicultural issues. Critical thinking and ethical decision making in law enforcement situations are developed through case analysis, exercises and simulations.

Prerequisite: (CRJS102 AND SOCI101)

Corequisite: None

CRJS260 Criminal Law

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on substantive criminal law. Elements of a crime; parties to a crime; types of offenses; and scope, purpose and definitions of criminal offenses are critically analyzed. The elements of creative problem solving are applied to problems in the field. There is an emphasis on ethical decision making by participants in this part of the system. The general principles of substantive law are studied through the analysis of appeals court decisions.

Prerequisite: (CRJS102)

Corequisite: None

CRJS290 World Criminal Justice Systems

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Considers issues related to criminal justice from the perspective of a number of nations. The course is intended to enable students to develop a creative approach to American criminal justice by seeing these issues are dealt with in other cultures.

Prerequisite: (CRJS102)

Corequisite: None

CRJS300 Forensic Criminology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to provide students with an in depth study of the concepts of profiling, behavioral analysis, and threat assessment. The course examines a variety of serious offenses such as serial murder, serial rape, school violence, workplace violence and child abduction. Emphasis will be placed upon the underlying psychological factors and societal stressors that contribute to the above events.

Prerequisite: (CRJS102)

Corequisite: None

CRJS305 Corrections

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An analysis and critique of what the criminal justice system does with convicted persons. Also a consideration of what the system should do with convicted persons. Further, considers the long term implications of corrections policy and practice on individuals and on society.

Prerequisite: (CRJS102)

Corequisite: None

CRJS310 Criminal Investigation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the principles and procedures used in criminal investigation including problem solving and scientific approaches to solving crimes.

Prerequisite: (CRJS102 AND CRJS240)

Corequisite: None

CRJS315 Terrorism in the 21st Century

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A study of the origin and history of terrorism, and its conceptual and theoretical framework in the world. This course provides an emphasis on the pre-1980's historical development of the phenomenon of terrorism, and the role that this history plays in terrorism today. An overview and analysis of the major active modern terrorist groups and their respective philosophies is presented.

Prerequisite: (CRJS102 AND SOCI101)

Corequisite: None

CRJS320 Topics in Criminal Justice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces in-depth topics relevant to the varied fields of criminal justice and aspects of the criminal justice system not otherwise substantially covered in existing courses, or which are of current topical interest. Topics will be selected prior to the start of the semester in which the course is offered.

Prerequisite: (CRJS102)

Corequisite: None

CRJS360 Criminal Procedure

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Considers the procedures the criminal justice professional must use in implementing the criminal law. The course gives primary consideration to the Fourth, Fifth, Sixth, Eighth, and Fourteenth Amendments to the United States Constitution. The course considers the Incorporation Doctrine, search and seizure, warrant requirements, arrest, stop and frisk, the right to counsel, interrogation, identification procedures, entrapment, cruel and unusual punishment and related matters.

Prerequisite: (CRJS260)

Corequisite: None

CRJS425 Senior Seminar in Criminal Justice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is intended to help students consolidate their learning in criminal justice and related areas and prepare for the world of work. Major concepts from throughout the criminal justice program are reconsidered and integrated. Major emphases include integrating theory, research and the application of findings to understanding the functioning of various functions of the criminal justice system. The process of obtaining employment in the criminal justice system is also a major emphasis of this course.

Prerequisite: None

Corequisite: None

CRJS490 Criminal Justice Research

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of research methods used in criminal justice which includes quantitative and qualitative paradigms. Includes an evaluation of the scientific method; sampling; reliability; validity; and the relationship of statistics, theory, and research. Emphasis will be placed on the use of various types of research in the criminal justice discipline.

Prerequisite: (MATH107 AND SOCI302)

Corequisite: None

CRJS600 The Correctional System

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is a description and analysis of the correctional system with special emphasis on total institutions and their impact on clients and their lives. Special attention is given to the lives of clients in such systems and on their adaptations to such a way of living.

Prerequisite: None

Corequisite: None

CRJS605 Research Methods in Criminal Justice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Provides an overview of applied research and the advanced concepts of research design most frequently used in the discipline. Students will learn how research builds to theory and how trends in the discipline are identified from the accumulation of research results. Students are also introduced to the dissemination of research in the field and ways to retrieve existing research.

Prerequisite: None

Corequisite: None

CVED200 Introduction to Deliberative Public Learning

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students are introduced to the theory and practice of deliberative citizen discourse in a democracy. The course links study of theory with participation in actual public forums. Principles of deliberative discourse are studied in relation to theories of democracy and then applied in public forums. Students become effective moderators in public deliberative forums and interpreters of results. This course also prepares students for more advanced study in the theory and practice of civic engagement and public scholarship. (Fulfills external experience general education)

Prerequisite: None

Corequisite: None

DANC100 Beginning Modern Technique

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Offering an overview of modern technique styles on the beginning level constitutes the core of this course. Students will develop an understanding and appreciation for dance as a performing art. Through classroom activities the student's experience, knowledge, and perspective of the creative process of dance will be enhanced. Examination of Pioneer Modern Dancers will increase physical understanding of concepts and objectives of the class. Writing skills will be developed in response to videos, class discussions, research, and live performances.

Prerequisite: None

Corequisite: None

DANC105 Basic Ballet Technique

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to teach basic skills in classical ballet, Basic Ballet Technique will increase the student's understanding of this movement style as a participant and an observer. It will also help students to develop an appreciation for this art form. An emphasis will be placed on understanding of anatomy and kinesiology, proper alignment, increase flexibility, and building technical strength. Most classes will be movement based. Lectures, class exercises, exams, and papers will examine the history, practice and theory of ballet.

Prerequisite: None

Corequisite: None

DANC200 Intermediate Modern Technique

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Develops physical understanding of modern technique styles on the intermediate level with attention to the elements of dance - time, space, and energy. Designed to create a greater understanding and appreciation for dance as a performing art. Examination of pioneer modern dancers and post-modern figures to increase physical understanding of concepts and objectives of the class. Writing skills are developed in response to videos, class discussions, research, and live performances.

Prerequisite: None

Corequisite: None

DANC205 Intermediate Ballet Technique

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to teach intermediate skills in classical ballet technique, this course emphasizes a practical understanding of proper alignment, musicality, and performance energy. Studio time includes learning, refining, and strengthening these skills into longer movement combinations. Most classes are movement based. Examines the history, practice, and theory of ballet.

Prerequisite: None

Corequisite: None

DANC210 Dance Composition 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Provides practical experience in manipulating the tools of choreography, exploration of compositional devices, and development of solos and small group works through improvisation, problem-solving, and cooperative assignments. Visual skills are enhanced when critiquing dances.

Prerequisite: None

Corequisite: None

DANC300 Dance Integration for Elementary Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Gives an awareness and understanding of how to teach elementary curricular concepts through dance. Students use traditional educational theories as a base for developing lesson plans through interactive teaching methods utilizing the performing arts.

Prerequisite: None

Corequisite: None

DANC301 Advanced Ballet Technique

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Refinement of technical skills in Classical Ballet at the advanced level. Mastery of kinesthetic, expressive, and aesthetic principles of contemporary ballet at an advanced level. Emphasizes a practical understanding of proper alignment, musicality, and performance energy. Studio time includes learning, refining, and strengthening these skills through performance of advanced movement combinations. Most classes are movement based. Examines the history, practice, and theory of ballet.

Prerequisite: (DANC105 AND DANC205)

Corequisite: None

DANC302 Dance in Western Culture

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Through theoretical analysis and practical application this course examines the historical development of Western theatrical dance from European peasants to Renaissance Court dances to trends in the 21st Century. Socio-cultural influences and contributions of artists are investigated, including the religious, political, and performative functions of dance in Western Culture.

Prerequisite: None

Corequisite: None

DANC303 Advanced Modern Technique

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Refinement of technical skill in modern dance at the advanced level, including complex movement capabilities, rhythmic structure, spatial relationships, with emphasis on aesthetic and expressive qualities that lead to performance. Designed to create a greater understanding and appreciation for dance as a performing art and humanity. Writing skills are developed in response to videos, class discussions, research, and live performances.

Prerequisite: (DANC100 AND DANC200)

Corequisite: None

DRIV416 Intro to the Driving Task

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the vehicle operator's task within the highway transportation system. Attention will be given to facts, rules, regulations, and attitudes for good driving. It is recommended that the course be taken early in the process of developing the driver educator. Required for certification in Safety/Driver Education.

Prerequisite: None

Corequisite: None

DRIV417 Driver Educ: Curriculum & Method

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to and practical application of methods and materials of teaching driver education. Future teachers of driver education will be able to plan, teach and evaluate the four modes of driver education. Participants will provide classroom instruction combined with road training and the teaching of driving to beginners by means of a dual-controlled car. Required for certification in Safety/Driver Education.

Prerequisite: None

Corequisite: None

DRIV418 General Safety Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

General Safety Education is for students in all curricula interested in improving the quality of life for all members of society. The course focuses on various areas of safety and accident prevention (e.g. home, school, industry, athletics, and recreation) that are related to today's major accident problems. The learner is given not only a broad coverage of each area but extensive specifics needed to be knowledgeable in the discipline of safety. Required for certification in Safety/Driver Education.

Prerequisite: None

Corequisite: None

DRIV429 Psychology Accident Prevention

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Attempts to establish the relationship between psychology and accident causation. Students will examine human behavior as a factor in the frequency of accidents in a wide variety of situations. Required for certification in Safety/Driver Education.

Prerequisite: None

Corequisite: None

ECED100 Introduction to Early Childhood Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of the historical, theoretical, and developmental foundations for young children, birth to 4th grade. While providing an orientation to early education of young children, emphasis will be on programs, current issues, families, community, and cultural diversity. ins

Prerequisite: None

Corequisite: None

ECED101 Cultures of Childhood

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the complex social and cultural factors that influence children's development and learning as well as the ethical guidelines that determine professional conduct and development.

Prerequisite: None

Corequisite: None

ECED119 First Year Seminar for Education Students

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to embed education program requirements into a required course and to support student achievement of Education program requirements. This course reviews campus services, certification requirements, and provides students with an overview of teacher education at Lock Haven University.

Prerequisite: None

Corequisite: None

ECED150 Diversity in the Development of Infants, Toddlers and Young Children

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to offer an examination of the influence of culture, environment and context on development of infants, toddlers and young children across physical, cognitive and social/emotional domains of development.

Prerequisite: (PSYC111)

Corequisite: None

ECED200 Observing and Assessing Young Children

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to observing, documenting and assessing young children (birth-five years) using formal and informal assessment tools across all areas of development.

Prerequisite: None

Corequisite: None

ECED212 Language Development in Early Childhood

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides a foundation of basic knowledge regarding language development in young children. Observation of and participation with young children are required.

Prerequisite: (ECED100 AND PSYC111)

Corequisite: None

ECED220 Emerging Mathematics: Children from Birth through Age 4

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to address the acquisition of knowledge and skills related to the development of mathematics concepts for preprimary children.

Prerequisite: (ECED100)

Corequisite: None

ECED225 Beginning Literacy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces appropriate methods for helping young children acquire literacy skills. The focus of this course is to provide students with information specific to children from PreK through grade 1. Students will learn to integrate literature with multiple curricular areas, how to assess young children's literacy, how to write appropriate lesson or activity plans, and what literature is appropriate for young children.

Prerequisite: (ECED212)

Corequisite: None

ECED230 Professional Communication and Family Collaboration

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the complex social, cultural and family factors that influence children's development and learning, the ethical guidelines that determine professional conduct and development, as well as, communication and guidance skills that promote positive relationships and successful learning experiences.

Prerequisite: None

Corequisite: None

ECED325 Assessment and Evaluation in Early Childhood Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to address the acquisition of knowledge and skills related to the development, as well as the interpretation, of assessments used in Early Childhood classrooms.

Prerequisite: None

Corequisite: None

ECED331 Planning & Administering Early Childhood Programs: Fostering Partnerships w/Families&Communts

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to exam the principles of effective program design and administration appropriate for infants to kindergarten in a variety of settings. Content includes child development theory, educational practice and governmental regulations.

Prerequisite: None

Corequisite: None

ECED332 Developing Creative Expression

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This junior level course is designed to examine the content and methods available to facilitate children's expression through art, music and dramatic play within childcare, educational and academic settings.

Prerequisite: None

Corequisite: None

ECED340 Creating Healthy Environments for Infants and Toddlers

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to examine the content and methods of environments for infant and toddlers in caring, educational, academic and family/home and play settings.

Prerequisite: None

Corequisite: None

ECED415 Integrating Curriculum and Instruction

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to assist the students in synthesizing theory and content from a variety of pre-professional courses through actual teaching or pre primary and primary grade children. Students plan, teach, and analyze segments of instruction under the supervision of college instructors in area school classrooms.

Prerequisite: None

Corequisite: None

ECED428 Student Teaching & Practicum Early Childhood 1

[Minimum Semester Hours: 7 sh; Maximum Semester Hours: 7 sh]

Student teaching provides the capstone experience for pre-service teachers. Two student teaching experiences are provided at two levels (appropriate to certification and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

ECED429 Student Teaching & Practicum Early Childhood 2

[Minimum Semester Hours: 7 sh; Maximum Semester Hours: 7sh]

Student teaching provides the capstone experience for pre-service teachers. Two student teaching experiences are provided at two levels (appropriate to certification and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

ECED431 Science: Early Childhood Professional Semester

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This component of the Early Childhood Education Professional Semester is designed to examine the content and methods of science education for young children in care giving, educational and academic settings. Observation of and participation with young children are required.

Prerequisite: None

Corequisite: None

ECED432 Language Arts and Reading for Early Childhood

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to examine the content and methods of language arts and reading for young children in an academic setting.

Prerequisite: None

Corequisite: None

ECED433 Math Methods for Grades K-4

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines the content and methods of math education for young children in primary settings.

Prerequisite: None

Corequisite: None

ECED434 Guidance and Communication: Early Childhood Professional Semester

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This component of the Early Childhood Education Professional Semester is designed to provide the historic origins of the Early Childhood Education guidance tradition, its foundation in a variety of theories of human development, learn applied guidance techniques and communication skills that promote successful learning experiences, and become familiar with observation and assessment tools that provide essential information for the effective guidance of young children.

Prerequisite: None

Corequisite: None

ECED436 Social Studies for Early Childhood: Early Childhood Professional Semester

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to examine the content and methods of social studies education for young children in pre-primary and primary level (K-4) settings. This course develops an understanding of the concepts and skills for effective instruction in all aspects of social studies for children through grade 4.

Prerequisite: None

Corequisite: None

ECED493 Student Teaching & Practicum Early Childhood 1

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6sh]

Prerequisite: None

Corequisite: None

ECED494 Student Teaching & Practicum Early Childhood 2

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

Prerequisite: None

Corequisite: None

ECED605 Advanced Child Development

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to provide graduate students with a review of frameworks for viewing diversity in development from infancy through middle childhood. These frameworks are then applied to key diversity factors shaping development. Students are provided with the opportunity to explore several of these factors in depth and to examine and analyze the implications for teaching and learning.

Prerequisite: None

Corequisite: None

ECED610 Childhood Play: Theory and Practice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to provide graduate students with an in depth look at play theories and the importance of play in child development and learning.

Prerequisite: None

Corequisite: None

ECED615 Family, Community and Educational Collaboration

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to provide graduate students with a review of frameworks for viewing educational collaboration from a family and community perspective. These two factors are explored in depth to examine and analyze their implications for teaching and learning.

Prerequisite: None

Corequisite: None

ECED620 Assessment, Evaluation, and Observation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to provide graduate students with an in depth look at various methods of assessment and evaluation, theories of measurement, and the role of assessment as an essential part of the instructional process.

Prerequisite: None

Corequisite: None

ECON101 Principles of Economics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to economic theory in terms of the American economic system: economic growth, national income and its distribution, markets and prices, economic instability, the public sector of the economy, and the relationship with the world economy. Critical evaluation of past and current economic policies in the U.S. Fulfills General Education Requirements.

Prerequisite: (MATH100) OR (MATH112) OR (MATH113)

Corequisite: None

ECON301 Economics of the Environment

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Application of economic analysis to problems of the environment, such as air, water, and land pollution; natural resource depletion; and preservation of species and natural areas. Specific aspects will include externalities, measurement of costs and benefits, alternative abatement strategies, allocation of property rights, and theories of renewable and nonrenewable resources. Past and present U.S. and international environmental policies will be critiqued, and new directions explored.

Prerequisite: (ECON101)

Corequisite: None

ECON305 History of Economic Thought

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of the development of economic thought from ancient to modern including preclassical, classical and neoclassical schools.

Prerequisite: (ECON101)

Corequisite: None

ECON310 Intermediate Macroeconomics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Intermediate study of economic aggregates with analysis of determinants of national income, production, and employment, as well as the theories of inflation and economic growth. Examines monetary, fiscal and income policies for achieving economic stability. Measurement of economic aggregates also considered.

Prerequisite: (ECON101)

Corequisite: None

ECON315 Intermediate Microeconomics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Intermediate study of microeconomic theory designed to provide an understanding of the economic environment within which business operates and the interaction between business and the economy at large. Emphasis on economic behavior of individuals and firms, and the consequences of this behavior. Application of economic theory to significant problems.

Prerequisite: (ECON101)

Corequisite: None

ECON320 American Public Finance

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An application of economic principles to the problems of government spending, taxation, and public debt management. Growth and nature of governmental expenditures; local, state, and federal revenue systems; nature and economic effects of various types of taxes; the federal budget as an instrument of national economic policy; public debts and financial administration.

Prerequisite: (ECON101)

Corequisite: None

ECON328 Social Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A thematic or topical approach, with emphasis on historical/political/economic analysis. Treatment of historical, contemporary and/or comparative topics (for example, the historical roots and contemporary practice of terrorism and its political and economic impact; the impact of imperialism --political, economic, and historical-- in different global areas; the frontier experience of Russian Siberia and the American West) within a framework provided by the instructor.

Prerequisite: None

Corequisite: None

ECON330 Economic Development

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Intermediate utilization of the tools of economic analysis for examining the models of economic growth and development. Theories applied to underdeveloped regions of the earth. Interdisciplinary nature includes study of political, sociological, historical, and technological factors in growth and development.

Prerequisite: (ECON101)

Corequisite: None

ECON335 Regional & Urban Economics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Sub-national area economic performance processes and issues. Analysis of economic activity in a spatial setting. The economics of location decisions and patterns, land use, urban structure, and regional development; inter-regional interaction and problems of locational change and adjustment; regional economic objectives, public and private policies; basic techniques of regional analysis.

Prerequisite: (ECON101)

Corequisite: None

ECON340 Money & Banking

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examination of the role of money and credit in the U.S. economy. Overview of financial instruments, markets, and intermediaries along with the evolution and regulation of the financial system. Attention is given to bank lending and the money supply process as controlled by the Federal Reserve System. Formulation of monetary policy is studied as are alternative monetary theories and international aspects of banking and finance.

Prerequisite: (ECON101)

Corequisite: None

ECON350 Comparative Economic Systems

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Comparison of how different economic systems allocates scarce resources. The structure and operation of the market economy and the socialist centrally administered economy. Emphasis on comparison of capitalist systems of the world and of economic systems in transition from being centrally planned to market directed; the collapse of communism.

Prerequisite: (ECON101)

Corequisite: None

ECON355 International Trade & Finance

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The economic effects of trade among nations. Topics include but are not limited to trade theory determination of exchange rates, international monetary problems, trade barriers, international economic agencies and agreements, trade policies of developing nations, and the international economic policies of the United States.

Prerequisite: (ECON101)

Corequisite: None

ECON360 Current Economic Problems

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Application of the analytical tools of economics to a variety of contemporary policy issues. Costs and benefits of social regulation are assessed in connection with such problems as inflation, poverty and income distribution, environmental pollution, economic growth and technological change, and provision of education and medical care.

Prerequisite: (ECON101)

Corequisite: None

ECON410 Econometrics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to empirical research in economics and the economic techniques used in forecasting.

Prerequisite: (ECON101 AND ECON310 AND ECON315 AND MATH107)

Corequisite: None

ECON415 Mathematical Economics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exposition of the mathematical structure of economic theories.

Prerequisite: (ECON101 AND ECON310 AND ECON315 AND MATH141)

Corequisite: None

ECON628 Social Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A thematic or topical approach, with emphasis on historical/political/economic analysis. Treatment of historical, contemporary and/or comparative topics (for example, the historical roots and contemporary practice of terrorism and its political and economic impact; the impact of imperialism --political, economic, and historical-- in different global areas; the frontier experience of Russian Siberia and the American West) within a framework provided by the instructor.

Prerequisite: None

Corequisite: None

EDLD600 Educational Leadership

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A required course in the Educational Leadership program and/or elective in the Alternative Education program. It outlines the program's philosophy and ongoing assessment activities. It provides students with the opportunity to become familiar with the program mission, philosophy, goals and competencies. This course also provides an introduction to the theory and practice of educational administration.

Prerequisite: None

Corequisite: None

EDLD602 School Law

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses primarily on court cases and ethical issues related to the following topics: instruction programs, freedom of expression, search and seizure, student discipline, discrimination, privacy, and teacher dismissal.

Prerequisite: None

Corequisite: None

EDLD605 Curriculum and Program Evaluation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A required course in the Educational Leadership program and/or elective in the Alternative Education program. The course provides a history of evaluation, identifies the varied purposes of evaluation, and reviews various models of curriculum and program evaluation.

Prerequisite: None

Corequisite: None

EDLD607 Professional Development in Schools

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Reviews the latest research available to educators about implementing professional development programs in their schools. Students will become familiar with how to design professional development programs. University partnerships, professional development schools, data-driven programming and standards are included as units of study in the course. The course also explores and analyzes critical issues in professional development.

Prerequisite: None

Corequisite: None

EDLD612 Instructional Strategies

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides principals with a practical and theoretical overview of instructional strategies that are effective and used in classrooms today. The course will highlight scaffolding instruction, differentiated instruction, varied learning styles and multiple intelligences, standards-based instruction, Blooms' Taxonomy of cognitive development and writing across the curriculum.

Prerequisite: None

Corequisite: None

EDLD685 Supervision Leadership and Administration Issues - Advanced Field Experience

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Allows students to apply skills, knowledge, and dispositions to areas that enhance the performance of an administrator. The course will highlight staff development, data collection, analysis and evaluation, program development, parent involvement, curriculum development, and accountability. Students will complete a variety of considerable in-school/district experiences over the 15 week period; not less than 120 hours.

Prerequisite: None

Corequisite: None

EDTF101 Social Foundations of Education

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

A systematic treatment of the development of public education in the U.S. The intellectual, political, and economic forces which have affected the purposes and programs of the schools in a democratic society. Basic features of the public school system, its organization, support, and control. Emphasis on history and philosophy for the development of interpretive, normative, and critical perspectives on education, including non-schooling enterprises. This course is required of Secondary, Early Childhood and Special Education majors.

Prerequisite: None

Corequisite: None

EDTF200 Instructional Media

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

An introduction to the planning and utilizing resources for instructional message development and delivery. This hands-on course emphasizes the operation and utilization of computers and related technologies aimed at meeting the International Society for Technology in Education (ISTE) standards focusing on pre-service teacher education. Students develop basic teaching/learning skills through exploring classroom applications of recent technological innovations including the internet and digital imagery. Course is restricted to Early Childhood, Elementary, Health & Physical Education, and Special Education majors.

Prerequisite: None

Corequisite: None

EDTF205 Instructional Media for Secondary Education 1

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

An introduction to the planning and utilizing resources for instructional development and delivery. This hands-on course emphasizes the operation and utilization of computers and related technologies aimed at meeting the International Society for Technology in Education (ISTE) standards focusing on secondary level pre-service teacher education. Students develop basic teaching/learning skills through exploring classroom applications of recent technological innovations including the internet and digital imagery. Restricted to Block 1 secondary teacher majors.

Prerequisite: None

Corequisite: None

EDTF300 Educational Technology for Specialized Disciplines

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A professional level course addressing two important needs of educators: 1) a foundational understanding of educational technology; and 2) the underlying principles of teaching and learning, of the paradigm shift, and of using technology to facilitate learning. Emphasis focuses on developing skills in the following areas: personal and professional use of technologies, production of digital materials, implementing and managing technology in instructional environments, and recognizing the role of technology in student learning and success.

Prerequisite: None

Corequisite: None

EDTF301 Educational Technology for Secondary Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A professional level course addressing two important needs of educators: 1) a foundational understanding of educational technology; and 2) the underlying principles of teaching and learning, of the paradigm shift, and of using technology to facilitate learning. Emphasis focuses on developing skills in the following areas: personal and professional use of technologies, production of digital materials, implementing and managing technology in instructional environments, and recognizing the role of technology in student learning and success.

Prerequisite: None

Corequisite: None

EDTF302 School Law and Ethics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of the laws and policies that have shaped public education within the judicial system. Emphasis will be placed on ethics for teacher-educators. Both teacher and student rights and responsibilities will be explored. Special Education Law will be the focus when investigating programs, services, accountability, and assessment.

Prerequisite: None

Corequisite: None

EDTF310 Instructional Media for Secondary Education II

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

A pre-professional level course addressing the use of technology to facilitate learning. Emphasis focuses on developing skills in the teaching/learning process through the use of instructional design, production of digital materials, managing technology in instructional environments, and recognizing the role of technology in student learning. Course is restricted to Block 2 secondary teacher education majors.

Prerequisite: None

Corequisite: None

EDTF602 Global Perspectives in Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of education in light of the global village concept. Focus is on psychosociological, economic, political, historical, and environmental forces that both shape and are shaped by education. Graduates will elevate their critical awareness of the education institution by examining similarities and differences among selected issues in nation states; formulate possible solutions to shared problems; and hone their decision-making skills.

Prerequisite: None

Corequisite: None

EDTL600 Introduction: Inquiry and Educational Change

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Introduces the Master of Education in Teaching and Learning and Alternative Education. In this course graduate students will be introduced to the program expectations, tools and objectives including the technologies utilized for program delivery and electronic portfolio development, online learning strategies, the National Board for Professional Teaching Standards, the National Educational Technology Standards for Teachers, and educational research.

Prerequisite: None

Corequisite: None

EDTL601 Teaching and Learning in an Information Age

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides graduate students with an understanding of the teaching/learning process in relation to the emergence of the "information age." Students will consider paradigm shifts in the roles of teacher, learner and technology. Students will compare and contrast the effectiveness of various technology types and how they impact the teaching/learning process. Students will develop technology enhanced learning experiences while developing technology skills reflective of the best practices and applications.

Prerequisite: None

Corequisite: None

EDTL602 Advanced Instructional Design and Development

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The purpose of this course is to provide graduate students understanding and experience with various models of instructional design and development. Students will identify topics, analyze learners, generate objectives and assessments as well as develop content outlines and learning activities. Learners will develop a personal instructional design model reflecting their educational philosophy and approach.

Prerequisite: None

Corequisite: None

EDTL603 Educational Assessment Strategies

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course will investigate the practical and theoretical issues involved in evaluating student performance, teacher performance and educational programs. The students enrolled in this course will examine a variety of assessment instruments and strategies and discuss the role (s) each has in the evaluation process. The course will enable students to plan, execute and interpret educational assessments.

Prerequisite: None

Corequisite: None

EDTL604 Designing Assessments Using Performance Standards

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The purpose of this course is to provide graduate students an understanding of and practice with the design and analysis of assessments and rubrics that can be employed in a standards-based classroom. Readings and activities are grounded in educational research and illustrated with meaningful classroom practices of teaching and learning in a standards-based environment.

Prerequisite: None

Corequisite: None

EDTL605 Critical Issues in Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course serves to examine timely problems, trends and issues related to education from a multi-disciplinary perspective. The focus is on contemporary influences of change in education at various points across the delivery process. These include issues that come from federal or state decisions in policy and law which impact educational practice, those that are generated by the changing professional knowledge base regarding curriculum and methodology that define best practice, and those that occur at the initial point of education to learners as a function of district policy and teacher practice.

Prerequisite: None

Corequisite: None

EDTL606 Analysis of Teaching

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Utilizing the five core propositions of the National Board for Professional Teaching Standards and the associated discipline/grade level standards as a framework, graduate students explore, design, implement and document strategies to analyze the effectiveness of their teaching and professional development.

Prerequisite: None

Corequisite: None

EDTL607 Projects, Readings and Case Studies in Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A course in the M.Ed. program that allows the student to choose a subject of interest in education and pursue a focused and self-directed review of the literature or creation of a project or case study.

Prerequisite: None

Corequisite: None

EDTL608 Education Reform

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An in-depth look at efforts to reform the education system in the United States. The course includes a historical overview of American education during the past 100 years; an analysis of reform efforts; contributions by various cultures, inside and outside of the United States to reform efforts; an overview of the process of reform; and, an exploration of current reform initiatives.

Prerequisite: None

Corequisite: None

EDTL609 Classroom Management and Control

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to promote student mastery of theory and practice related to classroom management. Students develop a repertoire of strategies to use for preventing and managing classroom discipline with all types of students and situations.

Prerequisite: None

Corequisite: None

EDTL610 Fundamentals of Educational Leadership

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Fundamentals of Educational Leadership is designed for teachers (or others) who are interested in developing their knowledge and skills in the area of leadership studies. Topics covered include contemporary leadership theory, gender and ethnic issues in leadership, assessment of personal leadership socio-emotional (SEQ) skill profiles, informal and formal school leadership, assessment of leadership cultures in schools, classroom leadership, teaching leadership skills to students, project and team leadership, transformational and change leadership, exemplary school leadership and the development of a personal leadership portfolio.

Prerequisite: None

Corequisite: None

EDTL611 Character Education: Developing Students to Become Productive Citizens

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on the need for developing students' ability to make good decisions based on reasoned principles and an approach to incorporate this skill as a part of the regular curriculum. Graduate students enrolled in this course will trace the history of moral education and evaluate various approaches to improve the moral behavior of grade school learners. In addition, the graduate students will choose one area of the curriculum and devise a long-range plan that will enhance the character development of their student learners.

Prerequisite: None

Corequisite: None

EDTL612 Number and Number Systems and Pedagogy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Utilizes the five core propositions of the National Board for Professional Teaching Standards and the associated discipline/grade level standards as a framework. Graduate students will utilize best practice in mathematical pedagogy and collaborate with other teachers to plan, teach and revise lesson plans in a format that follows Lesson Study research.

Prerequisite: None

Corequisite: None

EDTL615 Alternative Education: An Introduction to Theory and Practice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is designed to be an introduction to theories and practices in Alternative Education. An array of topics is explored to bring research, theories and practices together in a meaningful format. The inquiry nature of this course will serve as a building block for issues in other courses and the capstone research project. Emphasis is placed upon the practical application of theories in the classroom, best practices and characteristics of effective programs.

Prerequisite: None

Corequisite: None

EDTL617 Grant Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on the process of writing grants in human services and education. Students will explore and analyze the various components of a grant, the process of developing and writing proposals, research techniques that produce results, the budgeting process, and how to develop a unified proposal. Students will write a grant proposal as a final product for the course.

Prerequisite: None

Corequisite: None

EDTL618 Understanding the Role of Cognition and Social Skills in the Classroom

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is designed to promote student mastery of theory and practice related to cognitive and social skills training. Specifically, students will explore brain-based learning, cognitive skills research, social skills research, and the practical uses of these concepts with students in the classroom.

Prerequisite: None

Corequisite: None

EDTL620 Introduction to Deliberative Public Learning

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course introduces students to the theory and practice of deliberative citizen discourse in a democracy. The course links study of theory with participation in actual public forums. Principles of deliberative discourse are studied in relation to theories of democracy and then applied in public forums. Research on public learning and classroom learning are examined, especially in relation to standards-based outcomes assessment. Students will become effective moderators in public deliberative forums and interpreters of results. This course also prepares students for more advanced study of civic engagement and public scholarship and its application in the middle and secondary school settings.

Prerequisite: None

Corequisite: None

EDTL625 Investigating Curriculum Issues in Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students may select one issue from the following: curriculum mapping, designing assessment using performance standards, differentiated instruction, brain-based learning. In the alternative, they may propose another issue for instructor approval. Through investigation, analysis, and discussion, students investigate and formulate criteria necessary for the implementation of best practices within the classroom.

Prerequisite: None

Corequisite: None

EDTL627 Learning Theory and Practice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

In this course, graduate students will study classical and contemporary theories of learning, their contrasts and connections, and their impact on teaching and curriculum design. These studies, along with the completion of applied projects, will provide a basis for students to enrich their own instructional practice.

Prerequisite: None

Corequisite: None

EDTL632 Supervision of Student Teachers

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Theories and strategies of supervision for cooperating teachers at all levels in the direction of student teaching experiences. Includes the study of delivery systems in the school and classroom which relate to the teacher-student relationship for improving learning capacity, such as planning with specific objectives, skillfully conducted conferences, assessment techniques for analyzing teaching, resolution of teaching and learning problems, understanding role relationships, and exploration of value systems.

Prerequisite: None

Corequisite: None

EDTL634 Research Methods in Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of modern research methodology and theory through readings, lecture, discussions, and exercises. Students will develop skills in the scientific collection and evaluation of data, which will be applied towards solving and evaluating educational and other problems. The focus is on making students more effective consumers of research obtained from both professional journals and the popular media as well as the application of research methodology in a classroom setting.

Prerequisite: None

Corequisite: None

EDTL641 School Law

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course will emphasize the legal position of the teacher in Pennsylvania and the United States with regard to the organization and administration of school districts, teacher certification, teacher liability, and other legal principles affecting the teacher, principal, pupil, and school district. Opportunity will be provided to use legal source materials and libraries. Significant court cases will be studied and discussed.

Prerequisite: None

Corequisite: None

EDTL645 Topics in Teaching and Learning

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 3 sh]

An intensive approach to applied teaching and learning practices designed to explore specialized knowledge and skill pertinent to the field of education. Topics may include, among others, teaching and learning, reflective practices, analysis of teaching, designing assessments, instructional design and development, educational change, and professional teaching standards. Emphasis is placed on written work and discussion.

Prerequisite: None

Corequisite: None

EDTL650 Comparative and International Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course will examine the dynamics of education in light of the global village concept. Focus will be on the social, economic, political, cultural, and environmental forces that shape or that can be shaped by education. Similarities and differences among selected educational systems will be explored. Research will be extracted from diverse data bases. Current technology will be utilized to connect graduate students with educators outside of the United States to discuss issues, trends, similarities, and differences; to formulate solutions to shared problems; and to foster positive changes.

Prerequisite: None

Corequisite: None

EDTL680 Internship 1

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6sh]

Provides the first part of a two-tiered internship sequence for actively employed emergency certified teachers. This course provides a specific population of graduate students with opportunities to develop and enhance critical and reflective practices positively impacting student learning. (

Prerequisite: None

Corequisite: None

EDTL681 Internship 2

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

The second and culminating teaching internship experience for actively employed emergency certified teachers, Internship 2 extends and scaffolds upon the objectives, activities, and experiences of Internship 1. Students have the opportunity to refine instructional strategies and the principles of critical and reflective practice explored during the actual internship experience. This course provides a specific population of graduate students with further opportunities to develop and enhance critical and reflective practices related to positively impacting student learning. (

Prerequisite: None

Corequisite: None

EDTL685 Performance Based Assessment

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

In this course students will explore various means of performance-based assessment such as portfolio development, observation and other performance-based evaluation techniques. The effective use of technology will be included. Students will develop rubrics and practice skills in scoring them.

Prerequisite: None

Corequisite: None

EDTL690 Current Philosophies of Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the philosophies of education that have had an impact on education today. The works of educational philosophies and critiques of their positions will be read and discussed. The implications for today's educational experiences will be discussed.

Prerequisite: None

Corequisite: None

EDTL692 Reflective Practice and Action Research 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The first of two courses designed to promote thoughtful consideration and application of educational theory and research to the analysis of student learning in the teacher's daily decision-making process.

Prerequisite: None

Corequisite: None

EDTL694 Reflective Practice and Action Research 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The second of two courses designed to promote thoughtful consideration and application of educational theory and research to the analysis of student learning in the teacher's daily decision-making process.

Prerequisite: (EDTL692) OR (ALTE692)

Corequisite: None

EDTL695 Advanced Field Experience

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The culminating course in the M.Ed. graduate program that allows the graduate student to apply knowledge and demonstrate skills gained in their professions. This course is restricted to graduate students and is a core requirement in the M.Ed. Teaching and Learning and Alternative Education programs.

Prerequisite: None

Corequisite: None

EDUC105 Introduction to Elem Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides students with a basic understanding of the field of elementary education through experiences in elementary schools for a minimum of 25 hours. The philosophical model of education at Lock Haven University will be examined in depth. Students will examine the role of the classroom teacher in society and their own willingness to take on that role. In addition students will be introduced to e-mail, the internet and electronic library research. Students will be expected to do extensive writing and speaking in the course.

Prerequisite: None

Corequisite: None

EDUC119 First Year Seminar for Education Students

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to embed education program requirements into a required course and to support student achievement of Education program requirements. Must be taken by all Elementary Education majors.

Prerequisite: None

Corequisite: None

EDUC202 Children's Literature

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces the student to major literary genre, bibliographical tools, story-telling techniques, censorship, and early field experiences.

Prerequisite: (HONR111) OR (ENGL100)

Corequisite: None

EDUC204 The Elementary School

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines the elementary school in its traditional form, as it is changing today and in light of changes expected in the future. Emphasis is placed on factors responsible for the changes taking place--school organization and administration, scientific advances in our knowledge of learning and behavior, evolving roles of teachers, emerging technologies and patterns of instruction, and recent developments in American society. Includes in-school experiences directly related to the course. Required of all Elementary Education majors; taken during the first four semesters of the program.

Prerequisite: (EDUC105)

Corequisite: None

EDUC212 Classroom Management in the Middle and Secondary School Setting

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Examines behaviors that characterize this age group and helps teachers understand why adolescents behave as they do. Included are a variety of teaching methods and activities to stimulate and reinforce desirable behavior, effectively respond to undesirable behavior, and extinguish inappropriate behavior.

Prerequisite: None

Corequisite: None

EDUC220 Sophomore Seminar for Elementary Education Majors

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

Designed to embed education program requirements for the Developing Portfolio into a required course and to support student achievement of the Education program requirements.

Prerequisite: None

Corequisite: None

EDUC300 Foundations of American Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students will critically examine the history, philosophy, ethics, and theory of education. They will analyze past and current practices as well as their effect on curriculum and teaching methods. Teacher candidates will be expected to continually develop their understanding of multiculturalism and their skills in lesson planning, writing, and communication. They will refine their ability to evaluate the use of technology and WEB-based information.

Prerequisite: EDUC105 AND EDUC204 AND PSYC102

Corequisite: None

EDUC330 Classroom Management in the Elementary and Middle School Setting

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Offers a holistic view beginning with a variety of methods and activities for helping teachers build positive learning environments (a community of learners), improve relations in the classroom (a broader community), and cope with challenging behaviors and special abilities. The teacher is viewed as a model and facilitator, a supervisor of instruction which is called to fashion environments that invite exploration, inquiry, and positive self-concepts by drawing from research in psychology and sociology.

Prerequisite: EDUC204

Corequisite: None

EDUC335 Assessment and Differentiation in the Elementary Classroom

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An investigation into the design and evaluation of assessments for student performance in the elementary classroom.

Prerequisite: None

Corequisite: None

EDUC340 Classroom Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Classroom teachers are struggling to cope with an increasing number of student behavioral problems. This course will present strategies designed to stop discipline problems before they start. Building a positive learning environment, techniques for improving teacher-pupil relationships, and coping with disruptive behaviors will be studied. Based on sound, carefully researched theory, the course will offer a variety of methods and activities designed to help teachers implement management strategies.

Prerequisite: None

Corequisite: None

EDUC352 Computer Applications in the Classroom

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Develops background and skills for using computers in educational settings. Participants learn to use the computer to assist in the achievement of educational goals and to evaluate and author educational computer programs. Participants experience the computer as a tutor, a tool, and a tutee. Standards for excellence in courseware are studied. Participants use BASIC, Logo, and authoring languages.

Prerequisite: None

Corequisite: None

EDUC444 Summer Urban Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Provides an extended first-hand encounter with urban culture. It is intended to expand the opportunities of undergraduate teacher education students to work with diverse students in urban settings. The seminar includes a mix of carefully planned school, community, and cultural experiences. One of its unique features is an intensive community service project in which all students will participate during the weekend they are in Philadelphia. Open to all education majors who have complete 48 sh of work. Open to other majors as space permits. Offered very early Summer.

Prerequisite: None

Corequisite: None

EDUC472 Literacy and Language Arts: Elementary Professional Semester

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Taken only as a part of the Elementary Professional Semester. Designed to place emphasis on mastering methods, strategies and techniques and on using materials appropriately for a balanced literacy program. The course focuses on instruction and evaluation of writing, reading, speaking, and listening abilities plus the integration of these developing abilities across curriculums, standards and instructional designs. Current literacy policies, research based practices, and educational curriculums are stressed. This course is open to students who meet requirements for enrollment in the Elementary Professional Semester.

Prerequisite: READ300

Corequisite: None

EDUC473 Social Studies Methods: Elementary Professional Semester

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Taken only as part of the Elementary Professional Semester. Development of concepts and skills for effective instruction in all aspects of the Social Studies. Interdisciplinary unit studies are stressed. Students prepare lesson and unit plans, work in teams, present demonstration lessons to peers and evaluate instructional materials. Students learn how to access reference literature and teaching materials, locate experts and other resource personnel for classroom activities as well as for activities outside of the classroom.

Prerequisite: None

Corequisite: None

EDUC474 Science Methods: Elementary Professional Semester

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students practice techniques for teaching science to elementary children. The use of discovery learning is stressed. Science is treated more as a process than as a body of knowledge. Commercially produced science programs are reviewed; students create hands-on files, review and react in writing to science readings, create a science project and present it to children, and students prepare lessons to present to peers and children from the local schools. The use of manipulatives is required. Students study for, prepare and teach a coordinated set of activities in environmental studies including field trips to the University's conference center or other outdoor facilities.

Prerequisite: None

Corequisite: None

EDUC475 Teaching of Mathematics in the Elementary School: Elementary Professional Semester

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students learn techniques for teaching mathematics to elementary students according to the National Council of Teachers of Mathematics (NCTM) Process Standards and the PA State Math Standards. Emphasis is given to appropriate progression from the concrete to the abstract in all learning. Use of manipulatives is required. The use of strategies to make content accessible to ALL students is a priority. Much time is spent cultivating a positive attitude toward mathematics. Discovery learning, interdisciplinary study and the use of technology are woven into the course. Scheduled concurrently with subject matter methods and Clinical Field Experience.

Prerequisite: None

Corequisite: None

EDUC476 Creating Classroom Environments: Elementary Professional Semester

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Provides specific information and strategies for organizing, planning and implementing instruction in a classroom and creating a positive, productive atmosphere for learning. Questioning, listening and management techniques are stressed. Methods for helping learners become self-disciplined are emphasized and techniques for dealing with unacceptable behavior are considered in depth. Since this course is usually taken concurrently with other courses in teaching methods and with a required field experience course, all topics are consciously integrated with those of the other courses. In addition to mastering the various techniques considered, students are expected to develop a philosophical basis for creating an ordered classroom.

Prerequisite: None

Corequisite: None

EDUC477 Clinical Field Experiences: Elementary Professional Semester

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2sh]

This laboratory course assists the student in synthesizing theory and content from a variety of pre-professional courses and requires students to put this theory and content into practice during actual teaching of elementary school children. Students plan, teach and analyze segments of instruction under the supervision of college instructors in area school classrooms.

Prerequisite: None

Corequisite: None

EDUC478 Intro Educational Computing: Elementary Professional Semester

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Provides basic skills in the uses of microcomputers in educational settings and background about computer technology. Courseware in various instructional subject areas is examined and evaluated. Several modes for Computer-Aided Learning are demonstrated and experienced. Students receive an introduction to computer terminology, system components, operation, general uses of computers and resulting implications for society.

Prerequisite: None

Corequisite: None

EDUC493 Student Teaching and Professional Practicum: Elementary 1

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

The capstone experience for preservice teachers. Two student teaching experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

EDUC494 Student Teaching and Professional Practicum: Elementary 2

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

The capstone experience for preservice teachers. Two student teaching experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

ELET105 Circuits 1

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

An introductory course with a hands-on approach, designed to develop students knowledge of Direct Current (DC) circuits. The format of 4 hours of laboratory and 2 hours of lecture emphasizes this course's technical orientation. Basic circuit components, such as resistors, power supplies, and their role in series, parallel, and series-parallel networks are studied. Circuit analysis includes Ohm's law, Kirchoff's law and equivalent circuits. Some properties of magnetism are introduced.

Prerequisite: None

Corequisite: None

ELET110 Devices 1

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

An introduction to the structure and function of diodes, transistors, and related devices and their applications in power supplies, and in switching and amplifier circuits. Circuit elements will be characterized and modeled. The balance of four hours laboratory and two hours lecture emphasizes this course's technical orientation. Circuits using these elements will be constructed, modeled, and tested.

Prerequisite: None

Corequisite: None

ELML119 First Year Seminar for Elementary and Middle Level Education

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

Designed to provide an overview of elementary and middle level education and to outline program requirements to support student achievement within the Elementary and Middle Level Education Program. The students will be required to observe/participate in the schools for 20 hours in addition to class hours.

Prerequisite: None

Corequisite: None

ELML200 Language Arts Methods for Elementary and Middle Grades

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to provide an introductory exploration of language arts methods in the middle level grades. The students will be required to observe/participate in the schools for 10 hours in addition to class hours.

Prerequisite: None

Corequisite: None

ELML210 Learning Theory for Middle Level Learners

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to give the student a more in-depth understanding of the learning process for elementary and middle level learners. Essential components of the course focus on the learner, the teacher, the patterns of instruction, the curriculum, and the development of instructional materials. The students are required to participate in the schools 20 hours in addition to class hours.

Prerequisite: (PSYC103)

Corequisite: None

ELML250 Assessment and Differentiation in the 4-8 Classroom

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An investigation into the design and evaluation of assessments for student performance in the elementary/middle level classroom. Differentiated instruction and assessment will be addressed for middle level learners including English Language Learners (ELL). Ten hours of observation will be used to view middle level adapted assessment practices include PA Alternate System of Assessment (PASA) administration in addition to class.

Prerequisite: (ELML210)

Corequisite: None

ELML320 Science for the Elementary and Middle Level Learner

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

For preprofessional educators to synthesize all of the college level coursework to date into the proper framework for teaching science to students in grades four to eight. This course will deal with the physical science, life science, and earth and space science areas. Students will engage in personal scientific investigation.

Prerequisite: None

Corequisite: None

ELML405 Interventions and Classroom Management Strategies Elementary and Middle Level Learners

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A holistic view of methods and activities for helping teachers build positive learning environments, determine interventions to improve relations in the classroom, and cope with challenging behaviors and special abilities. Explores teacher as model, facilitator, and supervisor of instruction called to fashion environments that invite exploration, inquiry, and positive self-concepts. Ten hours of field practice is required in addition to class time.

Prerequisite: None

Corequisite: None

ELML410 Science Methods I

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

For preprofessional educators to practice the techniques of teaching science. The use of inquiry based learning is stressed. Science is treated more as a process than as a body of knowledge. Commercially produced science programs are reviewed. Sixteen participation hours are required in addition to class time.

Prerequisite: None

Corequisite: None

ELML412 Science Methods II

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

For preprofessional educators to practice the techniques of teaching science. The use of inquiry based learning is stressed. Science is treated more as a process than as a body of knowledge. Commercially produced science programs are reviewed. Students will prepare lessons to present to peers and children in the local schools. A demonstrated understanding of science manipulatives is required. Thirty-two participation hours are required in addition to class time.

Prerequisite: None

Corequisite: None

ELML414 Science Methods III

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

For preprofessional educators to practice the techniques of teaching science, including a working understanding of the 5-E Model. The use of inquiry based learning is stressed. Science is treated more as a process than as a body of knowledge. Commercially produced science programs are reviewed. Students will prepare lessons to present to peers and children in the local schools. A demonstrated understanding of science manipulatives is required. Forty-eight participation hours are required in addition to class time.

Prerequisite: None

Corequisite: None

ELML421 Language Arts Methods I

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to provide an examination of the content and methods for a dual concentration in English, language arts, reading and mathematics or science (biology or geology) education for the elementary and middle level learner. This course includes 16 hours of field experience in addition to class time.

Prerequisite: None

Corequisite: None

ELML422 Language Arts Methods II

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Designed to provide an in-depth examination of the content and methods for a single concentration English, language arts, reading education for the elementary and middle level learner. This course includes 32 hours of field experience in addition to class time.

Prerequisite: None

Corequisite: None

ELML431 Mathematics Methods I

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to provide an examination of the mathematics content and methods that support a single or dual concentration (Option I or II) in social studies, science (biology or geology), or English, language arts, reading education for the elementary and middle level learner. This course includes 16 hours of field experience in addition to class time.

Prerequisite: None

Corequisite: None

ELML432 Mathematics Methods II

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2sh]

Designed to provide an in-depth examination of the content and methods for a dual concentration (Option II) in mathematics and science (biology or geology) or English, language arts, reading education for the elementary and middle level learner. This course includes 32 hours of field experience in addition to class time.

Prerequisite: None

Corequisite: None

ELML433 Mathematics Methods III

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to provide an in-depth examination of the content and methods for a single concentration (Option I) in mathematics education for the elementary and middle level learner. This course includes 48 hours of field experience in addition to class time.

Prerequisite: None

Corequisite: None

ELML441 Social Studies Methods I

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to provide an examination of the social studies content and methods that support a single or dual concentration in mathematics, science (biology or geology), or English, language arts, reading education for the elementary and middle level learner. This course includes 16 hours of field experience in addition to class time.

Prerequisite: None

Corequisite: None

ELML442 Social Studies Methods II

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Designed to provide an in-depth examination of the content and methods for a dual concentration (Option II) in social studies and mathematics or science (biology or geology) education for the elementary and middle level learner. This course includes 32 hours of field experience in addition to class time.

Prerequisite: None

Corequisite: None

ELML443 Social Studies Methods III

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to provide an in-depth examination of the content and methods for a single concentration (Option I) in social studies education for the elementary and middle level learner. This course includes 48 hours of field experience in addition to class time.

Prerequisite: None

Corequisite: None

ENGL090 College Writing Skills

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Intensive practice in critical reading skills and forms of college writing. (For students whose SAT-verbal or Essay score is less than 401, or permission of instructor.) Course is not a remedial course; credits count toward graduation as elective credits.

Prerequisite: None

Corequisite: None

ENGL100 Composition

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Introduction to the basic principles of effective English written communication. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

ENGL110 Introduction to Literature

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to fiction, poetry, and drama that seeks to develop the student's understanding of literature. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

ENGL119 First Year Seminar for English Major Students

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

An introduction to the Lock Haven University Teacher Education Conceptual Framework and national standards for foreign language and English. The course guides students through the Stage I teacher education requirements and early field experience tasks, and addresses topics taught in generic freshman seminars.

Prerequisite: None

Corequisite: None

ENGL205 Introduction to Literary Studies

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the methods and theories of literary analysis. The course covers how to write about literature, how to conduct literary research, the history of the book, and approaches to literary theory.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL206 Methods of Teaching English 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The first course in a two-course English teaching and learning methods sequence, this class is an introduction to professional attitudes and discipline-specific pedagogical skills necessary to implement effective classroom instruction and educational technology. Emphasis is on theory, methods, materials, media, and strategies for teaching English Language Arts in the secondary setting and for Pennsylvania certification. The course includes field experiences and practice teaching.

Prerequisite: PSYC103

Corequisite: None

ENGL220 World Literature

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of world literature.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL225 Core Texts in the Western Tradition

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to classical mythology and the Bible that prepares students to understand allusions to these works in modern literature.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL230 British Literature Before 1800

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A comprehensive survey of British literature from the Anglo-Saxon beginnings to the end of the 18th century.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL231 British Literature After 1800

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A comprehensive survey of 19th and 20th century British Literature.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL235 Literature for Adolescents & Young Adults

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A pre-professional study of young-adult literature designed for teachers, librarians, and others using literature with young people. The course includes surveying suitable texts, using them in secondary schools, using text-sets on universal themes, pairing young-adult literature with classics, using literature as biblio-therapy, and listening, viewing, reading, writing, talking about literature. Attention is also given to censorship and the history of adolescent literature.

Prerequisite: None

Corequisite: None

ENGL237 Creative Nonfiction Workshop

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A workshop that teaches how to use the techniques of fiction writing in the writing of nonfiction.

Prerequisite: (ENGL100 AND ENGL110) OR (ENGL100 AND ENGL220) OR (HONR111 AND HONR112)

Corequisite: None

ENGL240 American Literature Before the Civil War

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of selected American authors from 1600 to the Civil War, with some emphasis upon the development of major literary trends. More emphasis upon selections than upon historical and biographical information.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL242 American Literature After the Civil War

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A study of selected American authors from the Civil War to the present, with some emphasis upon the development of major literary trends. More emphasis upon selections than upon historical and biographical information.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL264 Fiction Workshop

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Teaches the writing of short fiction through a balance of lectures, readings, writing exercises and the traditional workshop.

Prerequisite: (ENGL100 AND ENGL110) OR (ENGL100 AND ENGL220) OR (HONR111 AND HONR112)

Corequisite: None

ENGL266 Drama Workshop: Playwriting 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A workshop in the writing of plays in which students participate in discussions, pursue independent writing projects, and meet with the instructor for individual consultation.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL268 Poetry Workshop

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A workshop in the writing of poetry in which students study and discuss published poems and apply similar literary techniques to their own work, and participate in workshop discussions, pursue independent writing projects, and evaluate and discuss the work of fellow students, and meet with the instructor for individual consultation.

Prerequisite: (ENGL100 AND ENGL110) OR (ENGL100 AND ENGL220) OR (HONR111 AND HONR112)

Corequisite: None

ENGL280 Intro Study of Language

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Surveys historical and comparative linguistics, psycholinguistics, etymology, phonology, morphology, syntax and semantics. Special attention is paid to the history of the English language, usage, literacy, and nonstandard varieties of English.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL312 Secondary Education 2: English

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

The second in a sequence of early field experiences designed to provide student an opportunity to observe and participate in several diverse school settings. Extends and applies the theoretical base presented in Methods 1, as students develop and refine the professional attitudes and discipline-specific pedagogical skills necessary to implement effective literacy instruction.

Prerequisite: None

Corequisite: None

ENGL315 Composition Usage & Editing Tech

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Techniques for evaluating and editing expository and argumentative prose.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A thematic or topical approach to literature, with emphasis on close textual analysis and an exploration of the relationship between literature and the historical or social contexts. Texts might be drawn from American, British, or world literature, and could include poetry, prose, drama, or nonfiction. Topics might include, among others: images of women, representations of the American West, medical themes in literature, novels about war, domestic fiction, or literary realism.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL336 Shakespeare

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Survey of William Shakespeare's major works, including comedies, tragedies, histories, and sonnets.

Prerequisite: (ENGL100 AND ENGL110) OR (ENGL220) OR (HONR112)

Corequisite: None

ENGL345 Business Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study and application of current theories and practices of effective professional communication, focusing on using common business formats to write for specific audiences in a variety of contexts.

Prerequisite: (ENGL100)

Corequisite: None

ENGL357 Advanced Composition, Rhetoric and Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Study of the history of ideas about rhetoric and the effective use of language and images. The course focuses on practical applications for composing, critiquing, and teaching written, visual, and oral texts.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL360 Technical Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Practical experience in communicating scientific and technical material to a variety of audiences through clear, concise, and accurate writing..

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL400 Advanced Topics in British Literature

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Intensive study of a theme, genre, issue, or period in British literature.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL402 Advanced Topics in American Literature

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Intensive study of a theme, genre, issue, or period in American literature.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL404 Advanced Topics in World Literature

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Intensive study of a theme, genre, issue, or period in world literature.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

ENGL405 Grammars of English

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An analysis of English grammar from the perspectives of traditional grammar and transformational generative grammar. Primary attention will be given to understanding English morphology and syntax, grammar concepts, and evidence and arguments for correctness in usage.

Prerequisite: (ENGL100 AND ENGL110) OR (ENGL220) OR (ENGL230) OR (ENGL231) OR (ENGL240) OR (ENGL242)

Corequisite: None

ENGL408 Advanced Topics in Creative Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Advanced craft lessons and workshop in fiction, poetry, drama, screenwriting, and creative nonfiction.

Prerequisite: (ENGL264) OR (ENGL266) OR (ENGL268) OR (ENGL237)

Corequisite: None

ENGL415 Student Teaching and Practicum Secondary 1: English

[Minimum Semester Hours: 7 sh; Maximum Semester Hours: 7 sh]

Student teaching provides the capstone experience for pre-service teachers. Two student teaching experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

ENGL416 Student Teaching and Practicum Secondary 2: English

[Minimum Semester Hours: 7 sh; Maximum Semester Hours: 7sh]

Student teaching provides the capstone experience for pre-service teachers. Two student teaching experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

ENGL425 Major American Writers

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines no more than three major American writers of the 19th or 20th century. Emphasis is on the characteristics of each writer, their personality and professional relationships to each other, and their influence on the development of American Literature.

Prerequisite: (ENGL100 AND ENGL110) OR (ENGL220) OR (ENGL230) OR (ENGL231) OR (ENGL240) OR (HONR112)
Corequisite: None

ENGL435 Major British Writers

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on the major works of from one to three major British writers for an in-depth study. In addition to a study of the primary texts, the course may also include an examination of relevant historical, biographical, and critical materials.

Prerequisite: (ENGL100 AND ENGL110) OR (ENGL220) OR (ENGL230) OR (ENGL231) OR (ENGL240) OR (ENGL242) OR (HONR112)

Corequisite: None

ENGL493 Student Teaching and Practicum 1 Secondary Education English

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

Provides the capstone experience for pre-service teachers through two student teaching experiences at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers and regular practicum sessions introduce the student to the range and scope of a professional educator's responsibilities.

Prerequisite: None

Corequisite: None

ENGL494 Student Teaching and Practicum 2 Secondary Education English

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

Provides the capstone experience for pre-service teachers through two student teaching experiences at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers and regular practicum sessions introduce the student to the range and scope of a professional educator's responsibilities.

Prerequisite: None

Corequisite: None

ENGL602 Topics in Adolescent Literature

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A professional study of young adult literature designed for teachers, librarians, and others who use literature in dealing with adolescents and who desire to strengthen their expertise. In addition to a critical survey of young adult literature, consideration is given to advanced techniques for using these materials in middle, junior, and senior high schools and solving problems regarding their use, particularly questions about appropriateness and censorship.

Prerequisite: None

Corequisite: None

ENGL608 Topics in Creative Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An advanced writing class involving upper-level craft lessons and workshops in fiction, poetry, drama, screenwriting, and creative nonfiction.

Prerequisite: None

Corequisite: None

ENGL628 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A thematic or topical approach to literature, with emphasis on close textual analysis and an exploration of the relationship between literature and the historical or social contexts. Texts might be drawn from American, British, or world literature, and could include poetry, prose, drama, or nonfiction. Topics might include, among others: images of women, representations of the American West, medical themes in literature, novels about war, domestic fiction, or literary realism.

Prerequisite: None

Corequisite: None

ENGL635 Major British Writers

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on the major works of from one to three major British writers for an in-depth study. In addition to a study of the primary texts, the course may also include an examination of relevant historical, biographical, and critical materials.

Prerequisite: None

Corequisite: None

ENVT101 Introduction to Environmental Studies

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the historical and contemporary problems and dilemmas in environmental studies, their scientific bases, sociological implications, ethical dimensions, and avenues for constructive response.

Prerequisite: None

Corequisite: None

ENVT450 Capstone Research Project

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 3 sh]

An intensive independent research project related to the discipline of Environmental Studies. Ideally the project will also relate to the student's major concentration.

Prerequisite: (ENVT101)

Corequisite: None

FILM328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to cinema as an art form. The seminar will screen outstanding films of the past and present, discuss and write about the films, and read screenplays and critical studies. Principal objective of the course is to increase students' understanding and appreciation of film.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

FILM628 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to cinema as an art form. The seminar will screen outstanding films of the past and present, discuss and write about the films, and read screenplays and critical studies. Principal objective of the course is to increase students' understanding and appreciation of film.

Prerequisite: None

Corequisite: None

FREN101 French 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The fundamentals of pronunciation, vocabulary, and patterns of expression. Oral and written practice intended to develop the skills of speaking, reading, writing, and listening to French.

Prerequisite: None

Corequisite: None

FREN102 French 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The fundamentals of pronunciation, vocabulary, and patterns of expression. Oral and written practice intended to develop the skills of speaking, reading, writing, and listening to French.

Prerequisite: None

Corequisite: None

FREN201 French 3

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A review of fundamentals, together with continued vocabulary development, more complete construction, and more advanced oral and written exercises.

Prerequisite: None

Corequisite: None

FREN202 French 4

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A review of fundamentals, together with continued vocabulary development, more complete construction, and more advanced oral and written exercises.

Prerequisite: None

Corequisite: None

FREN203 French Civilization 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The first semester examines modern France, emphasizing cultural traits, patterns of daily living, and current issues. The second semester follows the development of France from its earliest beginnings to the present, and traces its outstanding achievements in art, literature, architecture, science, etc.

Prerequisite: None

Corequisite: None

FREN204 French Civilization 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The first semester examines modern France, emphasizing cultural traits, patterns of daily living, and current issues. The second semester follows the development of France from its earliest beginnings to the present, and traces its outstanding achievements in art, literature, architecture, science, etc.

Prerequisite: None

Corequisite: None

FREN301 French Comp & Conversation 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

In the first semester, extensive vocabulary development by reading and discussion of situational materials.

Prerequisite: None

Corequisite: None

FREN303 French Literature 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Readings from the main works of French literature from the early Middle Ages to the present. Discussion of the characteristics of each work and of each literary movement. Critical readings. In this and subsequent literature courses, it is assumed that the student has the ability to read French with considerable ease, to follow lectures in the language, and to participate freely in discussions.

Prerequisite: None

Corequisite: None

FREN304 French Literature 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Readings from the main works of French literature from the early Middle Ages to the present. Discussion of the characteristics of each work and of each literary movement. Critical readings. In this and subsequent literature courses, it is assumed that the

student has the ability to read French with considerable ease, to follow lectures in the language, and to participate freely in discussions.

Prerequisite: None

Corequisite: None

FREN305 French Linguistics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces general concepts of structural linguistics, with special emphasis on comparison of the sound systems of French and English. Intensive work on the development of authentic pronunciation of French, including phonetic transcription.

Prerequisite: None

Corequisite: None

FREN306 Current French Periodicals

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Reading and discussion of the latest French newspapers and magazines, coupled with the study of contemporary France. Attention will be given to recent developments in French idiom and vocabulary, including "Franglais". Current tapes of French news broadcasts will help develop listening comprehension.

Prerequisite: None

Corequisite: None

FREN310 Advanced French Grammar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An intensive study of French, providing review of basic grammar as well as presentation of more advanced topics not treated in French I-IV. Translation practice and structure drills will focus on problem areas arising from particular differences in English and French language structure.

Prerequisite: None

Corequisite: None

FREN320 Francophone Identities

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of diverse voices, social groups and societies in francophone literatures through works by francophone writers from all over the world. Designed as an introduction to the literatures and cultures of the francophone world, the course considers issues of social status, history, resistance, representation and identity. Taught in French.

Prerequisite: (FREN202)

Corequisite: None

FREN328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of major films produced by leading French directors since the 1960s. Films will be studied as expressions of French culture and related to the special circumstances of French life, society and history that they reflect. Films will be discussed both in general aesthetic terms and in terms of specifically French values and specifically French way of life. Special attention will also be devoted to the differences between French and American filmmaking. Films are presented with English substitutes; no knowledge of French is necessary.

Prerequisite: None

Corequisite: None

GEOG100 Physical Geography

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the physical geographical elements of the world. The earth's principal spheres (atmosphere, lithosphere, hydrosphere and biosphere) are explored through time and space as they respond to change. Major areas of study are the water cycle and budget, global soil systems, natural vegetation zones, climatic regions, earth dynamics, and ecological energetics.

Prerequisite: None

Corequisite: None

GEOG110 General Climatology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course provides an introduction to the basic fundamentals of general climatology. The basic components of climate and weather are introduced. Climate classifications and their geographic distribution are carefully explained and mapped. The interactions of human and biotic activity with weather phenomena and climate types are identified, examined, and studied. Laboratory exercises are coordinated so as to introduce students to the scientific method of weather data collection and weather mapping.

Prerequisite: None

Corequisite: None

GEOG180 Urban Geography

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course provides an introduction to cities as the artificial home of modern people. Urbanization is currently one of the principal physical, cultural, economic, social and political problems facing the world. Populations are rapidly changing from predominantly rural to urban in their distribution. The modern city frees the poor and the oppressed minorities from rural biases only to introduce them to the societal ills of urban slums. Through use of models students come to appreciate the social physics of urban function, growth and morphology. An appreciation of the city and its intricacies is developed. Future possibilities are discussed and explained.

Prerequisite: None

Corequisite: None

GEOG212 Geography Developing World

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A general introduction to the cultural and physical features of the developing regions of the world. These areas are sometimes referred to as the Third World. Following examination of the physical and cultural geography, the regional geography of the developing world will be studied. Features of the developed and developing regions of the world will be identified, compared and contrasted. Development problems and potentials will be considered for the areas of urbanization, industrialization and modernization.

Prerequisite: None

Corequisite: None

GEOG214 Geography Developed World

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A general introduction to the physical and cultural geography of the developed regions of the world. An introduction to the physical and human elements of the environment is followed by an in-depth examination of the major developed regions of the world. Issues of industrialization, international trade and technological development are set in their geographic environments and examined.

Prerequisite: None

Corequisite: None

GEOG220 Cartography

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to maps, cartographic techniques and map production. The basics of map reading and map making will be introduced. Students will be introduced to aerial photo interpretation and remote sensing. Basic programs in computer will be introduced and used.

Prerequisite: None

Corequisite: None

GEOG260 World Regional Geography

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines the economic, political, environmental, and cultural processes that influence the spatial interaction between less and more developed regions of the world with particular emphasis on how regions are being unevenly affected by globalization.

Prerequisite: None

Corequisite: None

GEOG305 Conservation Natural Resources

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the conservation ideas from an optimistic viewpoint. Basic earth materials must be employed or converted to sustain our material culture. The basic resources are investigated and discussed. Major areas of study are water, minerals, soils, energy, forests, wildlife, pollution, and environmental quality.

Prerequisite: None

Corequisite: None

GEOG315 Political Geography

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course is an in-depth study of how geography has influenced political phenomena throughout history. Political processes and environmental interaction at various levels of the political hierarchy are examined. Present day political problems are viewed in their aerial context.

Prerequisite: None

Corequisite: None

GEOG328 Social Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Uses a thematic and topical approach to examine issues in geography such as ethnic conflict, regional integration and separatism, regional development, sustainable development, poverty and uneven development, environmental degradation, and overpopulation (to be determined by the professor). Particular emphasis is placed on historical, political, and economic forces as they relate to contemporary issues associated with globalization.

Prerequisite: None

Corequisite: None

GEOG401 Special Problems

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 4 sh]

Individual research under the guidance of the Geography staff. For advanced students in Geography.

Prerequisite: None

Corequisite: None

GEOG430 Urban & Regional Planning

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Urban and Regional Planning is a means for systematically anticipating and achieving adjustments in the physical environment of a city consistent with social and economic trends and sound principles of urban environmental design and management. Therefore, it involves a continual process of deriving, organizing, and presenting a broad and comprehensive program for urban development and renewal. Land use planning will be considered as a means to fulfill local objectives of social, economic, and physical well-being, considering both immediate needs and those of the foreseeable future.

Prerequisite: (GEOG180)

Corequisite: None

GEOG440 Economic Geography

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course in Economic Geography emphasizes the need for universal control of the spatially distributed natural resources. Economic Geography can be regarded as a science concerned with the rational development, and testing of theories that explain

and predict the spatial distribution and location of various characteristics on the surface of the earth. These characteristics are related to the consumption, production, and exchange of goods and services. The scientific approach to the analysis of this spatial distribution and its interrelationships involves two aspects, which are equally important. The first is the collection of facts or data, and the second is the synthesis of these facts into meaningful theories of great interest to economic geographers in the quantitative analysis of spatial distributions to discern the presence and form of patterns.

Prerequisite: None

Corequisite: None

GEOG445 Geography of Latin America

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A systematic, conceptual, methodological framework is devised as a basis to view the various regions. Included is the survey of Mexico, countries of Central American, major countries and areas of the West Indies, and all the South American countries. Emphasis is placed upon regional comparisons. The relations of Latin American countries among themselves and the rest of the world are stressed.

Prerequisite: None

Corequisite: None

GEOS101 Earth Science

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to Earth-system processes in the context of astronomy, meteorology, geology, and oceanography. Examines the Earth's relationship to the Sun, Moon, and planets in the solar system. The Earth's major processes, including the hydrologic cycle, the rock cycle, plate tectonics, global wind circulation, ocean circulation, global climatic phenomena, and human-induced changes in the environment are examined through lectures and hands-on laboratory investigations.

Prerequisite: None

Corequisite: None

GEOS120 Oceanography

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A comprehensive study of major components of oceans, including the origin of evolution of ocean floors, energy and mineral resources of oceans, chemical constituents and reactions in seawater, air-sea interactions, marine organisms and the relationships between these organisms and the environments of oceans. Ocean-related environmental concerns, including beach erosion, wetland loss, sea-level fluctuations, and point sources and non-point sources of pollution are discussed. (This course is required for majors in Secondary Education/Earth and Space Science, Secondary Education/General Science, and Biology/Marine Biology. Therefore they will receive preference for registering for the course. A required four-day field trip to Wallops Island, VA for which the students have an out of pocket expense of \$100 at the field station, plus meal expenses on the trip to and from the Marine Science consortium station.)

Prerequisite: None

Corequisite: None

GEOS130 Principles of Geology I

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The Earth its structure, composition, agents of construction and destruction. Lab activity designed to train students in the identification of rocks and minerals and interpretation of topographic and geologic maps. Fulfills General Education Requirements

Prerequisite: None

Corequisite: None

GEOS131 Principles of Geology II

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to gain an appreciation of the deepness of geologic time and the vastness of space and to develop an understanding of the geologic and biologic processes through which the Earth and life on Earth evolved over geologic time. Students acquire hands-on experience on the use of scientific equipment and mapping tools in the field and in laboratory settings. Applications of stratigraphic principles to interpret Earth's history and the trend in evolution of life are emphasized.

Prerequisite: (GEOS130) OR (GEOS110)

Corequisite: None

GEOS213 Introduction to Geographic Information Systems

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to geographic information systems (GIS) with emphasis on capturing, storing, editing, querying, displaying, and analyzing geographically referenced data. Lecture and laboratory materials are designed to provide students with hands-on experience on real-world applications of GIS in their respective fields.

Prerequisite: None

Corequisite: None

GEOS215 Environmental Geology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students will traverse the spectrum of applied geology focusing upon its relation to human activities. Included among topics are water availability; geologic hazards such as earth quakes, landslides, and land subsidence; mineral and energy resources; engineering geology, waste disposal and pollution; land-use planning; coasts and coastal management; and medical and legal aspects of geology.

Prerequisite: (GEOS110) OR (GEOS130)

Corequisite: None

GEOS230 Geomorphology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of landforms and the factors involved in their formation including geologic processes, composition, structure, and climate. The laboratory emphasizes the recognition of various landforms using topographic and aerial photographs.

Prerequisite: (GEOS110) OR (GEOS130)

Corequisite: None

GEOS260 Geology Field Trip

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

Guided field trips focusing upon various areas of geologic interest. Successive trips have different emphases. Pre-trip meeting required. Participants should expect to incur expenses for meals and lodging.

Prerequisite: (GEOS130) OR (GEOS110)

Corequisite: None

GEOS301 Invertebrate Paleontology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the study of invertebrate fossils including: system of classification, types of fossil preservation, nomenclature, characteristic structures, ecology and evolution of the paleontologically important invertebrate phyla.

Prerequisite: (GEOS210) OR (BIOL240) OR (GEOS131)

Corequisite: None

GEOS305 Mineralogy and Petrology

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

An introduction to the origin, occurrence, crystallography, and chemical and physical properties of geologically important minerals. Includes a study of the classification and interpretation of igneous and metamorphic rocks.

Prerequisite: (GEOS110) OR (GEOS130)

Corequisite: None

GEOS313 Advanced Geographic Information Systems

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Deals with advanced topics in geographic information systems (GIS), including spatial reference data, geometric transformation, raster data analyses, terrain mapping, viewsheds and watersheds, spatial interpolation, geocoding, dynamic segmentation, path analyses, geostatistics, mobile GIS, and GIS models and modeling. Lecture and laboratory exercises are designed to provide students with hands-on experience with real-world applications of GIS in solving problems in diverse fields.

Prerequisite: (BIOL213) OR (GEOS213)

Corequisite: None

GEOS315 Sedimentology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of sedimentary materials, processes, depositional environments, and the products of sedimentation. Laboratories focus upon collection, analysis, and presentation of field data and the description and interpretation of both consolidated and unconsolidated sedimentary materials applying various petrologic and petrographic techniques.

Prerequisite: (GEOS210) OR (GEOS131)

Corequisite: None

GEOS328 Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course looks at how scientists search for knowledge and try to gain an understanding of natural phenomena. Students explore the roles science and technology play in human activities both locally and globally. Specific topics vary and are based on the expertise and interest of the faculty member responsible for teaching the course that semester.

Prerequisite: None

Corequisite: None

GEOS360 Hydrogeology

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4sh]

A course that emphasizes practical hydrogeologic principles, stressing interactions between geology and both surface and underground water. Topics include occurrence, production, and management of groundwater, water quality, flooding and flood control, and sources of information for the practicing hydrogeologist.

Prerequisite: (GEOS110 AND MATH141) OR (GEOS130 AND MATH141)

Corequisite: None

GEOS361 Aqueous Environmental Geochemistry

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An upper-level course designed to help students develop in-depth knowledge of geochemical processes and factors controlling chemical composition and chemical reactions that impact the quality of both surface water and groundwater in natural and anthropogenically disturbed/perturbed geological systems.

Prerequisite: (CHEM121 AND GEOS110) OR (CHEM121 AND GEOS130)

Corequisite: None

GEOS415 Stratigraphy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The principles of lithostratigraphy and biostratigraphy form the core of this course. Geochronology and the recently developed techniques of seismic, magnetic, and isotopic stratigraphy supplement those classical principles. Laboratories emphasize the field identification and interpretation of vertical and lateral relationships of sedimentary sequences.

Prerequisite: (GEOS315)

Corequisite: None

GEOS420 Geology of Energy & Mineral Resources

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Geologic occurrence and methods of locating, mining, evaluating, and processing fossil fuels and industrial and ore minerals. Geology of major, worldwide fuel and mineral deposits and environmental problems associated with their exploitation.

Prerequisite: (GEOS221) OR (GEOS305)

Corequisite: None

GEOS430 Structural Geology

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

The constant movements of lithospheric plates relative to one another throughout the immensity of geologic time account for the regional and local displacement and deformation of the Earth's outer layers. These deformational processes along with the changes in the size and shape of the coherent rock masses and the internal arrangement of their constituent elements are the focus of this area of geological investigation.

Prerequisite: (GEOS210) OR (GEOS131)

Corequisite: None

GEOS450 Geophysics and Tectonics

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Geophysical methods used to study the Earth and other planetary bodies, including geophysical foundations of plate-tectonic theory. The course includes geophysical techniques used in mineral-resource exploration, engineering, and characterization of waste-disposal sites.

Prerequisite: (GEOS210) OR (GEOS131)

Corequisite: None

GEOS451 Coastal Environmental Oceanography

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Advanced topics in coastal geomorphology and environmental issues pertinent to coastal settings, including human impacts on coastal landforms, shoreline erosion, wetland loss, sea-level fluctuations, nutrients in estuaries, metals in bays, and climate change. Lecture, field trips, and laboratory exercises are designed to provide students with hands-on experience with field and laboratory equipment used to solve real-world problems in diverse coastal settings.

Prerequisite: (GEOS120) OR (GEOS130)

Corequisite: None

GEOS490 Capstone Research Project

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Students engage in an intensive independent research project related to their major concentration that will culminate in a research paper and presentation based on data collected and interpreted using scientific methods.

Prerequisite: None

Corequisite: None

GEOS628 Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course looks at how scientists search for knowledge and try to gain an understanding of natural phenomena. Students explore the roles science and technology play in human activities both locally and globally. Specific topics vary and are based upon the expertise and interest of the faculty member responsible for teaching the course that semester.

Prerequisite: None

Corequisite: None

GERM101 German 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the fundamentals of German grammar and syntax, with special attention to pronunciation, reading, speaking, listening and writing of simple sentences and prose selections.

Prerequisite: None

Corequisite: None

GERM102 German 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the fundamentals of German grammar and syntax, with special attention to pronunciation, reading, speaking, listening and writing of simple sentences and prose selections.

Prerequisite: None

Corequisite: None

GERM201 German 3

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A review of the fundamentals of German language and pronunciation; reading of short German prose works illustrating aspects of style; development of vocabulary and linguistic fluency.

Prerequisite: None

Corequisite: None

GERM202 German 4

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A review of the fundamentals of German language and pronunciation; reading of short German prose works illustrating aspects of style; development of vocabulary and linguistic fluency.

Prerequisite: None

Corequisite: None

GERM203 German Culture 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of significant aspects of German culture, including current events and movements. Special attention is given to the outstanding persons, events and forces in art, music, theater, philosophy, politics, education, and religion, with a view towards understanding the German ethos.

Prerequisite: None

Corequisite: None

GERM204 German Culture 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of significant aspects of German culture, including current events and movements. Special attention is given to the outstanding persons, events and forces in art, music, theater, philosophy, politics, education, and religion, with a view towards understanding the German ethos.

Prerequisite: None

Corequisite: None

GERM301 German Comp & Conversation 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Advanced course to develop fluency in speaking and writing. Classroom time is devoted mainly to conversation about everyday life. Compositions will be written on contemporary topics. Grammar is treated as necessary.

Prerequisite: None

Corequisite: None

GERM302 German Comp & Conversation 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Advanced course to develop fluency in speaking and writing. Classroom time is devoted mainly to conversation about everyday life. Compositions will be written on contemporary topics. Grammar is treated as necessary.

Prerequisite: None

Corequisite: None

GERM303 German Literature 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Readings from selected authors representative of the main periods of modern literature. Lectures on literary history and the lives of the more important writers supplement the discussion of works being studied. Students are expected to develop and express critical opinions.

Prerequisite: None

Corequisite: None

GERM304 German Literature 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Readings from selected authors representative of the main periods of modern literature. Lectures on literary history and the lives of the more important writers supplement the discussion of works being studied. Students are expected to develop and express critical opinions.

Prerequisite: None

Corequisite: None

GERM305 Advanced German Grammar 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A thorough review of the grammatical structure of the German language. Students learn to communicate correctly and effectively in German by means of extensive oral and written exercises that focus on specific areas of grammar.

Prerequisite: None

Corequisite: None

GERM306 Advanced German Grammar 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A thorough review of the grammatical structure of the German language. Students learn to communicate correctly and effectively in German by means of extensive oral and written exercises that focus on specific areas of grammar.

Prerequisite: None

Corequisite: None

GERM328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of German film since 1970. Films will be studied as expressions of German culture and of a specifically German view of the world. Films are shown with English subtitles; no knowledge of German is necessary.

Prerequisite: None

Corequisite: None

GERM402 German Prose 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of German prose fiction since the eighteenth century. Students will study such modern writers as Hermann Hesse, Franz Kafka, Heinrich Boll, Thomas Mann, and Max Frisch. Literary works are studied both as products of their age and culture and for their own thematic interest. Changes in style, technique, and worldview are examined in historical perspective.

Prerequisite: None

Corequisite: None

HIST101 World History 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A global survey of the evolution of societies and civilizations from prehistory to the early modern era. It covers the history of Europe and the Mediterranean basin, but also Africa, Asia and the Americas. Recurrent themes are the environment, community, politics, economy, technology, belief systems and culture. Fulfills General Education Requirements. (Fulfills multicultural general education)

Prerequisite: None

Corequisite: None

HIST102 World History 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A survey of world history from the early modern period to the present. Its central focus is the gradual integration of diverse populations as global contact expanded during the period in question. Students consider the construction of historical periodization from a multi-cultural perspective while examining a variety of themes that illuminate the interaction of cultures through conflict and cooperation. Fulfills General Education Requirements. (Fulfills multicultural general education)

Prerequisite: None

Corequisite: None

HIST111 Global History 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A global survey of the evolution of societies and civilizations from prehistory to the early modern era. It covers the history of Europe and the Mediterranean basin, but also Africa, Asia and the Americas. Recurrent themes are the environment, community, politics, economy, technology, belief systems and culture. Fulfills general education requirement in world history. Restricted to History and Secondary Education, Social Studies majors

Prerequisite: None

Corequisite: None

HIST112 Global History 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of world history from the early modern period to the present. Its central focus is the gradual integration of diverse populations as global contact expanded during the period in question. Students will consider the construction of historical periodization from a multi-cultural perspective while examining a variety of themes that illuminate the interaction of cultures through conflict and cooperation. Fulfills general education requirement in world history. Restricted to History and Secondary Education, Social Studies majors

Prerequisite: None

Corequisite: None

HIST150 American History

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A rapid survey of political, economic, diplomatic, social, and cultural developments in the United States from the beginning of the colonial period to the present. This course does not fulfill the general education requirement in history.

Prerequisite: None

Corequisite: None

HIST200 Historical Thinking and Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to historical methods, with emphasis upon sources, interpretation, presentation and scholarly debate. Thematic content (i.e., geographic region, era, or subject) and/or case studies to be determined by the instructor.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

HIST201 History of the United States 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of U.S. history from the period of colonial origins to the end of Reconstruction, encompassing political, economic, military and social developments during the colonial era, the Revolution, the early national period, the age of Jackson, and the Civil War and Reconstruction.

Prerequisite: None

Corequisite: None

HIST202 History of the United States 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A survey of U.S. history since 1865, emphasizing shifting political, social and economic developments, particularly the transformation of the U.S. from an agricultural to an industrial nation and the impact on the U.S. of its rise as a world power.

Prerequisite: None

Corequisite: None

HIST203 Introduction to Public History

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introductory survey to the field of public history giving special attention to the history, philosophy, and purposes of applied history. A key theme is the professional responsibilities of historians in preserving and interpreting the past through historical agencies, archives, museums and sites of local history.

Prerequisite: None

Corequisite: None

HIST205 History of the United States Labor Movement

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the American labor movement from early national beginnings to the present placed within the framework of general historical development. It seeks to explore the world of both the wage earner and the organizations created to achieve common goals. Emphasis is focused on the growth of American unionism and the development of collective bargaining.

Prerequisite: None

Corequisite: None

HIST210 Colonial America

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of American life from the beginnings of English settlement to 1789, with emphasis upon the development of political, economic and cultural institutions.

Prerequisite: None

Corequisite: None

HIST230 Appalachian Regional History

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Traces the unique history of Appalachia, a region that runs from Alabama through New York and includes Central and Western Pennsylvania. Students will scrutinize and discuss primary sources and historical analyses as they consider the construction of the notion of "Appalachia." The course will introduce students to patterns of settlement and exploitation of resources, discuss variations within the region, and examine Appalachia's history within both a national and an international context.

Prerequisite: None

Corequisite: None

HIST245 History of Pennsylvania

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Pennsylvania from its colonial beginnings to the present; special attention to the political, economic, and social factors which have shaped the past; the Commonwealth's impact upon the national scene.

Prerequisite: None

Corequisite: None

HIST300 Early American Republic

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An exploration of various themes in United States history from the end of the Revolution through the era of Andrew Jackson (1783-1845). Topics to be covered include the emergence of political institutions, economic growth, the struggle to create a functional foreign policy, westward expansion, the rise of sectional tensions, and the changing characteristics of a developing society.

Prerequisite: None

Corequisite: None

HIST301 Medieval History

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of the creation and evolution of Europe from the division of Rome by the fifth century to the division of Christianity after the fifteenth. The course will concentrate on the development of European political, social, religious, and intellectual structures, paying special attention to the synthesis of Mediterranean, Germanic, Islamic, and Christian contributions.

Prerequisite: None

Corequisite: None

HIST302 Civil War & Reconstruction

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the American Civil War era, 1845-1877. Topics to be emphasized include the ante-bellum South; the origins of the Civil War; the war in its military, political, diplomatic, social and economic aspects; and reconstruction, South and North.

Prerequisite: None

Corequisite: None

HIST304 Recent US History

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of major transformations in U.S. society and foreign policy since World War II. Topics include the origins of the Cold War, domestic life in the 1950's, the civil rights movement, Vietnam, sixties protests, the women's movement, Watergate, the political shift to the right in the 1980's, and recent changes in the U.S. economy.

Prerequisite: None

Corequisite: None

HIST305 Renaissance & Reformation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Key intellectual developments of the Renaissance including secularism, humanism, and individualism. Analysis of early Protestant movements. Ideas and influences of Protestant and Catholic leaders including Luther, Calvin, Loyola, and Pope Paul III. The Commercial Revolution.

Prerequisite: None

Corequisite: None

HIST306 History of the American Frontier

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the westward movement and its influence upon the American development. Social and economic aspects of the frontier experience will be emphasized.

Prerequisite: None

Corequisite: None

HIST307 Diplomatic History of US

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Foreign relations from the beginning of our national history to the present: the growth and influence of a policy of "isolation"; the creation and development of the Monroe Doctrine; the emergence of the United States as a world power; the problems incident to the assumption of global responsibilities.

Prerequisite: None

Corequisite: None

HIST310 French Revolution & Napoleon

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The Old Regime, the Enlightenment, and the causes of the French Revolution. Revolutionary events of the decade 1789-1799 and military, legal, economic, and political aspects of the Napoleonic era. The emergence of the bourgeoisie.

Prerequisite: None

Corequisite: None

HIST311 International Business History

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of selected topics in the development of modern business cultures. The expansion of the industrial, world economy will serve as the general chronological framework, with major units devoted to: family firms and trading diasporas, chartered and joint stock companies, banking and insurance, commercial adaptations of new technologies, the creation of mass markets, "business imperialism," the multinational corporation, and business cultures within late industrializers and "emerging" markets.

Prerequisite: None

Corequisite: None

HIST312 US in Prosperity & Depression, 1918-1941

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of the culture, economics and politics of the U.S. between the two world wars. Topics include the impact of World War I, the emergence of a mass consumer culture in the 1920's, the Great Depression and its effects on U.S. society, the rise of the modern labor movement, the New Deal and the origins of the welfare state, and the legacy of these developments for contemporary America.

Prerequisite: None

Corequisite: None

HIST313 Nationalism in Asia

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of the rise of modern nationalism in India, China, Japan and Southeast Asia in the nineteenth and twentieth century. Emphasis will be on a thematic, theoretical and comparative approach highlighting the similarities and differences in society and culture of each of these regions and their response to nationalism.

Prerequisite: None

Corequisite: None

HIST314 Oral History

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A workshop that introduces students to the theory, method, and practice of oral history. Students read and discuss theory, develop a research agenda, conduct field interviews, present results of a transcribed interview, and reflect on the relationship between theory and practice. (Fulfills external experience general education)

Prerequisite: None

Corequisite: None

HIST315 Social History of Europe Since 1750

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An interdisciplinary survey of the pattern of social history of modern Europe with particular reference to the interaction of institutions and struggles of social classes. Use is made of social sciences auxiliary to the study of history, in particular economics, demography and sociology.

Prerequisite: None

Corequisite: None

HIST318 US Women's History

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of the experiences of women in the United States from colonial times to the present. The course examines the way that U.S. history has been shaped by gender, that is, the impact of gender on women's economic status and social roles. It also explores the diversity of experiences of women of different classes and ethnic backgrounds. Finally, the course examines women's contributions to U.S. culture or politics.

Prerequisite: None

Corequisite: None

HIST322 History of Modern China

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Traces the political, social, economic, and intellectual evolution of China from approximately 1800 to present. Special emphasis will be placed upon Western imperialism in China, the Revolution of 1911, the rise of the Nationalist and Communist Parties, the Chinese Civil War, the People's Republic, and post-Mao China. No previous exposure to China is presumed.

Prerequisite: None

Corequisite: None

HIST324 Environmental History of Asia

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the ecological landscape of Asia from the earliest times with a focus on the diverse aspects of its environmental history. Addresses human migrations, changes in land use patterns, water management systems, forests, grazing lands, and climatic change, in the context of oceanic and overland interactions among the inter-communicating regions within Asia, and between Asia and the rest of the World.

Prerequisite: None

Corequisite: None

HIST327 History of Modern Japan

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Traces the evolution of Japan from an isolated island nation to a world power. Deals with the political, economic, social, military and intellectual history of Japan from 1600 to the present. Particular emphasis will be placed on the Takugawa Bakafu, the Meiji Restoration, the rise of Militarism and Nationalism, the Russo-Japanese War, the occupation of China, World War II, the Reconstruction, and the modern Japanese economy. No previous exposure to Japan is presumed.

Prerequisite: None

Corequisite: None

HIST328 Social Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A thematic or topical approach, with emphasis on historical/political/economic analysis. Treatment of historical, contemporary and/or comparative topics (for example, the historical roots and contemporary practice of terrorism and its political and economic impact; the impact of imperialism --political, economic, and historical-- in different global areas; the frontier experience of Russian Siberia and the American West) within a framework provided by the instructor.

Prerequisite: None

Corequisite: None

HIST332 History of the Islamic World to 1798

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Examines selected topics in Islamic history before 1798, introducing students not only to important personages, events, and themes, but also to historical interpretation and method. The course will be divided into four units, outlining the expansion of the Islamic world from the early community at Mecca to the zenith of the Ottoman Empire; specifically, the religious and political foundations of Islam, conversion and expansion, Islamic civilization, and the great empires.

Prerequisite: None

Corequisite: None

HIST333 History of the Islamic World Since 1798

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of selected topics of the modern Islamic history, introducing students not only to important personages, events, and themes, but also to historical interpretation and method. The course will be divided into seven units from the pivotal 1790's to the present; specifically: decline and renewal in the late eighteenth century, the age of European colonialism, nineteenth and twentieth century nationalism, the politics of oil and the fundamentalist challenge.

Prerequisite: None

Corequisite: None

HIST335 History of Modern Russia

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Major developments of Russian history since 1815. Emphasis upon the decline of Tsarism, rise of revolutionary movements, World War I and the Russian Revolution of 1917. Soviet ideology, foreign and domestic policies from Lenin to the present.

Prerequisite: None

Corequisite: None

HIST338 History and Preservation of American Architecture

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of American architectural history as material evidence of the country's social, cultural, economic and technological development. Examines the meaning, uses, and changes of selected architectural forms addressing a broad array of structures, monuments, and landscapes. Emphasizes the principles and methods of public history, especially historic preservation. Includes attention to professional careers and ongoing projects in historic preservation.

Prerequisite: (HIST200) OR (HIST203)

Corequisite: None

HIST342 History Modern Europe 1815-1914

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A chronological and topical approach. Evaluation of major political, economic, social and cultural trends, with particular emphasis on industrialization and economic and social changes, development of the power of the nation-state, imperialism, and the origins of World War I.

Prerequisite: None

Corequisite: None

HIST343 History Mod Europe 1914-Present

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A chronological and topical approach. Evaluation of major political, economic, social and cultural trends, with particular emphasis on the impact of two world wars, fascism, establishment of the USSR, western European resurgence after World War II, and the shaping of the post-Cold War order.

Prerequisite: None

Corequisite: None

HIST345 Military History of US

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A study of the American military experience from colonial times to the present. Topics include the development of military organizations, institutions, practices, and traditions, and the origins and evolution of past wars in their military, diplomatic, political, economic, and social dimensions.

Prerequisite: None

Corequisite: None

HIST347 The Ancient Mediterranean

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An analysis of the evolution of ancient Mediterranean societies and cultures from the prehistory of the area until the decline of the Roman Empire, the rise of Islam, and the end of the Mediterranean as a cultural unit. Focuses on major social, political, cultural, and religious institutions and practices of ancient Mesopotamia, Egypt, Palestine, Greece, and Rome.

Prerequisite: None

Corequisite: None

HIST358 History of Modern South Asia and Indian Ocean

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides the student with a basic understanding of the history and civilization of India, Pakistan and Bangladesh, from South Asia's earliest history up to the present. Special emphasis will be placed on the Classical Age of Indian History, the great Mughal Empire, the British Empire, and independent South Asia. No previous exposure to South Asia is presumed.

Prerequisite: None

Corequisite: None

HIST362 History of Africa to 1800

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of selected topics in pre-colonial African history. with the aim of introducing students not only to important personages, events and themes, but also to historical interpretation and method. The course will be divided into six units ranging from prehistory to the eighteenth century, specifically: food and society, ancient civilizations, human migration, state formation, Islamic society, and the transatlantic slave trade.

Prerequisite: None

Corequisite: None

HIST363 History of Africa Since 1800

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of modern African history from 1800 to the present, with the aim of analyzing contemporary issues from an historical perspective. In particular, the course will revolve around the question of whether the colonial period was simply a brief, superficial phase in African history, or a time of upheaval and transformation. Emphasis will be placed on African agriculture, rural communities, industrialization, urbanization, and colonial and contemporary politics.

Prerequisite: None

Corequisite: None

HIST366 History of Modern Southeast Asia

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Traces the evolution of Southeast Asia from its early modern history as a focal region for European and American colonialism and conquest, to the emergence of the contemporary independent states. Emphasis will be placed on Dutch colonialism in Indonesia, the British in Burma and Malaysia, America in the Philippines, French Indochina, the Vietnam War, and Southeast Asia since 1975.

Prerequisite: None

Corequisite: None

HIST367 Colonial Latin American History

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Surveys the history of the vast area known as Latin America from Pre-Columbian times to the wars of independence of the early nineteenth century. Examines the major Pre-Columbian civilizations, the early encounter with Iberians, processes of conquest and transformation that resulted in the creation of unique American societies. Focuses on the development of the economic, political, social, cultural and religious institutions of this region.

Prerequisite: None

Corequisite: None

HIST370 History of Latin America

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The development of Latin America from the period of discovery to the present. The relation of economic, social and cultural factors to the various political units. The influence of relations with Europe and the U.S.

Prerequisite: None

Corequisite: None

HIST372 Historical Perspectives on Appalachian Health Care

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students will study the development of health care systems and issues in Appalachia, a region that contains central Pennsylvania. This course will provide students with an opportunity to scrutinize and discuss primary sources and historical analyses that address the following issues: identification of the region and recognition of the unique health needs of its inhabitants; the development of the medical profession and its relationship to other health care providers; and evaluation of the effectiveness of the traditional medical system in Appalachia.

Prerequisite: None

Corequisite: None

HIST375 History of Mexico & Central Amer

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A general history of Middle America from the conquest by the Spanish to the present, with emphasis upon the national rather than the colonial experience. Special emphasis on Mexico and Cuba and on the relationships of Middle America with the U.S.

Prerequisite: None

Corequisite: None

HIST377 Modern Latin American History

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of the history of Latin America from the Wars of Independence (1820s) to the present. Through lecture, readings, discussion and various media, students will analyze the economic and political development of Latin America, its authoritarian and revolutionary past and its recent transitions to democracy. The role of popular culture in national development and identity as well as relations with the U.S. will also be examined.

Prerequisite: (HIST***)

Corequisite: None

HIST385 History of Modern South Africa

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of modern South African political, social and economic problems within an historical context. Thus, the course will survey the development of colonial political institutions, industries, social class and popular movements with the aim of better defining the protests and reforms of recent years. Topics covered will include: pre-colonial Southern African societies, Dutch colonization and Afrikaner society, the mineral revolution and industrialization, rural impoverishment and labor migration, colonial labor and segregation policies, labor unions, African nationalism, and the rise and apparent fall of the apartheid regime.

Prerequisite: None

Corequisite: None

HIST390 Contemporary World Problems

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A detailed study of the historical background and significance of several major contemporary problems. Issues treated will vary from year to year in response to the changing world scene. Typical problems are the Arab-Israeli conflict, arms limitation, northern Ireland, the status of Taiwan, among others.

Prerequisite: None

Corequisite: None

HIST395 Historiography

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of the nature of historical inquiry and historical knowledge through a study of the principles of historical methodology. A survey of the history of historical writing with emphasis upon the critical historical scholarship of the last two centuries.

Prerequisite: None

Corequisite: None

HIST480 Capstone Research Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A research seminar, with emphasis upon historical sources, interpretation, presentation and scholarly debate. Thematic focus (i.e., era or theme) to be determined by the instructor, according to the following criteria: 1) global in scope, 2) local history application, 3) subject of historical debate.

Prerequisite: (HIST200 AND HIST3**)

Corequisite: None

HIST605 The Renaissance & Reformation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Key intellectual developments of the Renaissance including secularism, humanism, and individualism. Analysis of early Protestant movements. Ideas and influences of Protestant and Catholic leaders including Luther, Calvin, Loyola, and Pope Paul III. The Commercial Revolution.

Prerequisite: None

Corequisite: None

HIST608 History of Ideas in the United States

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of the major trends in American religious, political, social and economic thought from the colonial period to the present.

Prerequisite: None

Corequisite: None

HIST618 US Women's History

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of the experiences of women in the United States from colonial times to the present. The course examines the way that U.S. history has been shaped by gender, that is, the impact of gender on women's economic status and social roles. It also explores the diversity of experiences of women of different classes and ethnic backgrounds. Finally, the course examines women's contributions to U.S. culture or politics.

Prerequisite: None

Corequisite: None

HIST622 History of Modern China

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Traces the political, social, economic, and intellectual evolution of China from approximately 1800 to present. Special emphasis will be placed upon Western imperialism in China, the Revolution of 1911, the rise of the Nationalist and Communist Parties, the Chinese Civil War, the People's Republic, and post-Mao China. No previous exposure to China is presumed.

Prerequisite: None

Corequisite: None

HIST627 History of Modern Japan

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Traces the evolution of Japan from an isolated island nation to a world power. Deals with the political, economic, social, military and intellectual history of Japan from 1600 to the present. Particular emphasis will be placed on the Takugawa Bakafu, the Meiji Restoration, the rise of Militarism and Nationalism, the Russo-Japanese War, the occupation of China, World War II, the Reconstruction, and the modern Japanese economy. No previous exposure to Japan is presumed.

Prerequisite: None

Corequisite: None

HIST628 Social Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A thematic or topical approach, with emphasis on historical/political/economic analysis. Treatment of historical, contemporary and/or comparative topics (for example, the historical roots and contemporary practice of terrorism and its political and economic impact; the impact of imperialism --political, economic, and historical-- in different global areas; the frontier experience of Russian Siberia and the American West) within a framework provided by the instructor.

Prerequisite: None

Corequisite: None

HIST666 History of Modern Southeast Asia

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Traces the evolution of Southeast Asia from its early modern history as a focal region for European and American colonialism and conquest, to the emergence of the contemporary independent states. Emphasis will be placed on Dutch colonialism in Indonesia, the British in Burma and Malaysia, America in the Philippines, French Indochina, the Vietnam War, and Southeast Asia since 1975.

Prerequisite: None

Corequisite: None

HIST672 Historical Perspectives on Appalachian Health Care

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Prerequisite: None

Corequisite: None

HIST690 Contemporary World Problems

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A detailed study of the historical background and significance of several major contemporary problems. Issues treated will vary from year to year in response to the changing world scene. Typical problems are the Arab-Israeli conflict, arms limitation, northern Ireland, the status of Taiwan, among others.

Prerequisite: None

Corequisite: None

HLTH100 Medical Terminology

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

An introductory study of medical language including basic word structure, medical prefixes and suffixes, and document organization. It is designed to help students interpret medical terms as used in medical practice.

Prerequisite: None

Corequisite: None

HLTH102 Orientation to Health Science

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Explores career options and graduate or professional school opportunities for Health Science majors. Class activities primarily consist of presentations by allied health professionals regarding job requirements, prerequisite education and related matters.

Prerequisite: None

Corequisite: None

HLTH104 Foundations of Health Education

[Minimum Semester Hours: 1.5 sh; Maximum Semester Hours: 1.5 sh]

Introduces students to the profession of health education. Emphasis is placed on the history of the profession; major determinants of health status; the contributions of the behavioral sciences, education and public health; and health behavior change theory. Students will analyze the roles and responsibilities of health educators.

Prerequisite: None

Corequisite: None

HLTH105 Introduction to Health

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introductory survey of basic health issues. The emphasis is on the development of health literacy skills to enhance students' efficacy in reaching and maintaining a lifestyle conducive to health and wellness. A foundation of health content will be covered to serve as a basis for further study of contemporary health issues.

Prerequisite: None

Corequisite: None

HLTH119 First Year Student Seminar

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

An introduction to the culture and mission of the university within the context of an academic discipline. Explores the purpose of college education and provides an opportunity to become engaged with the academic discipline. Students are introduced to basic learning and study skills in a content area. Through class discussion of readings, students engage in active learning. Common co-curricular activities and the incorporation of a peer mentor component facilitate connection with fellow students and faculty. Restricted to first semester, first year students.

Prerequisite: None

Corequisite: None

HLTH122 Essentials of Human Anatomy and Physiology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to cover topics of normal structure and function of the human body at an introductory level to prepare students for advanced study. The laboratory component includes practical application of course content using the scientific method. Students will explore integumentary; skeletal; muscular; nervous; cardiovascular; respiratory; digestion and metabolism; urinary; lymphatic and immune; endocrine and reproductive systems.

Prerequisite: None

Corequisite: None

HLTH128 Anatomy and Physiology 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to introduce students to a two-course sequence involving the study of the normal structure and function of the human body. Students explore the sensory organs, integumentary, skeletal, muscular, and nervous systems.

Prerequisite: None

Corequisite: None

HLTH129 Anatomy and Physiology 1 Lab

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

A lab experience that will introduce students to an in-depth anatomical and physiological analysis of the skeletal, joint, integument, muscular, nervous, and organ systems. Disarticulated skeletons, organ models, and various audiovisual aids will aid in student comprehension.

Prerequisite: None

Corequisite: None

HLTH130 Anatomy and Physiology 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The second of a two-course sequence to introduce students to a study of the normal structure and function of the human body. Students explore the endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive systems.

Prerequisite: (HLTH128) OR (HLTH151)

Corequisite: None

HLTH131 Anatomy and Physiology 2 Lab

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

A laboratory experience that will introduce students an in-depth anatomical and physiological analysis of the cardiovascular, respiratory, digestive, urinary, and reproductive systems. Physiological exercises, organ models and various audiovisual aids will be used to aid in student comprehension.

Prerequisite: None

Corequisite: None

HLTH200 Introduction to Disease

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to provide health science students with a background of information that is needed for future advanced studies in specific allied health professions. Course topics include medical terminology and documentation, basic evaluation skills, the inflammatory and healing processes, and an introduction to the diseases that occur within the body's systems.

Prerequisite: (HLTH151 AND HLTH251) OR (HLTH115 AND HLTH120) OR (HLTH128 AND HLTH130) OR (HLTH130 AND HLTH151)
OR (HLTH128 AND HLTH251)

Corequisite: None

HLTH208 Stress Management and Life Skills for Health Promotion

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The interrelationship of physical, mental, and psychological aspects of overall health. The emphasis is on the development of health literacy skills to enhance students' efficacy in researching and maintaining a lifestyle conducive to health and wellness. Students will be guided through identifying and analyzing how their personal lifestyles impact their health. Specific emphasis on preventive measures of disease, development of a stress management plan, and lifelong skills to promote every aspect of health.

Prerequisite: None

Corequisite: None

HLTH215 Community Health

[Minimum Semester Hours: 1.5 sh; Maximum Semester Hours: 1.5sh]

An overview of community health agencies and processes involved in community health education. Particular emphasis is placed on environmental health, uses of epidemiological data, and political processes and their influence on community health.

Prerequisite: (HLTH105) OR (HLTH104)

Corequisite: None

HLTH301 CPR and Emergency Care

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is designed to provide the student with the skills necessary to respond to and evaluate both life-threatening and nonlife-threatening situations. Emphasis is placed on the evaluation and management of medical emergencies or trauma injuries through the use of scenarios and demonstration of proper first aid techniques. Students receive training and certification in CPR, first aid, and blood pressure measurement.

Prerequisite: None

Corequisite: None

HLTH305 Intro to Biomechanics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Increases the health science major's understanding of human movement and provides the foundation for critical analysis of physical activity and exercise. The approach includes the use of both quantitative and qualitative problems and applications that are designed to illustrate biomechanical principles.

Prerequisite: (HLTH128 AND HLTH129)

Corequisite: None

HLTH307 Cultural Aspects of Health

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of race, ethnicity and culture as constructs of health. The course is designed to enhance cultural awareness and improve cultural competence when working with diverse populations within the United States.

Prerequisite: None

Corequisite: None

HLTH310 CPR & First Aid Instructor Training

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Students will become prepared to teach CPR and first aid skills to others. Emphasis is placed on the role of the instructor to supervise skill practice sessions. Detailed training with the CPR manikins is given. Upon successful completion of the course, students will receive American Red Cross instructor certification in CPR and first aid.

Prerequisite: (HLTH301)

Corequisite: None

HLTH315 Consumer Health

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to offer useful information concerning the selection of health services and products for enlightened consumers.

Prerequisite: None

Corequisite: None

HLTH320 Drug Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Provide students with current, accurate, and documented information about drug abuse in society. Special attention will be given to prevention, treatment, and drug education programs.

Prerequisite: (HLTH105) OR (HLTH154) OR (HLTH104)

Corequisite: None

HLTH325 Death Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Thought provoking questions and learning activities will help the student personally examine selected death-related issues and will serve as a guide in developing a death education curriculum in the secondary, middle or elementary school setting.

Prerequisite: None

Corequisite: None

HLTH330 School Health Programs

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Intended for students interested in health education. It includes the information and skills for planning and implementing policies and programs aligned with the Coordinated School Health Program. The course meets the combined standards for the National Commission on Accreditation in Teacher Education (NCATE) and Society for Public Health Education-American Association for Health Education (SABPAC).

Prerequisite: None

Corequisite: None

HLTH334 Teaching of Nutrition and Consumer Health

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to address the basic elements of nutrition and consumer health for the health and physical education major.

Prerequisite: (HLTH104)

Corequisite: None

HLTH336 Teaching Drug Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides students with current, accurate, and documented information concerning drug abuse in society. Special attention will be given to drug education curriculum K-12, special school programs, community drug education programs, dysfunctional family problems related to drug abuse, and teaching strategies.

Prerequisite: (HLTH104 AND HLTH151 AND HLTH251) OR (HLTH105 AND HLTH151 AND HLTH251) OR (HLTH104 AND HLTH128 AND HLTH130) OR (HLTH105 AND HLTH128 AND HLTH130) OR (HLTH104 AND HLTH130 AND HLTH151) OR (HLTH105 AND HLTH130 AND HLTH151) OR (HLTH104 AND HLTH128

Corequisite: None

HLTH341 Teaching Human Sexuality

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Intended for students interested in health education. It includes the information and skills needed to facilitate the planning and implementation of human sexuality education. Emphasis is placed on topics within human sexuality that are typically included in kindergarten to grade 12 sexuality education. The course meets the combined standards for the National Commission on Accreditation in Teacher Education (NCATE) and Society for Public Health Education-American Association for Health Education (SABPAC).

Prerequisite: None

Corequisite: None

HLTH350 Health Program Planning

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Grounded in effective assessment of existing public health liabilities and assets and input from the priority population. The emphasis is on proven models that impact the health profile of a community, state, and nation. Students will be guided through identifying and analyzing how various models provide a continuous series of steps or phases in planning, implementation and evaluation.

Prerequisite: (HLTH104 AND HLTH215)

Corequisite: None

HLTH353 Physiology of Exercise

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Lectures, assigned readings, discussions, and laboratory exercises to aid in scientific evaluation and understanding of the effects of muscular activity upon the human body and its response and adaptation to stress. Applications are made to personal assessment and human performance under all conditions.

Prerequisite: (HLTH128 AND HLTH129 AND HLTH130 AND HLTH131) OR (HLTH122)

Corequisite: None

HLTH401 Current Issues in Health

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Health is a dynamic and rapidly changing field that requires constant and continuous monitoring and study to keep abreast of contemporary developments. Selected current health topics drawn from popular and professional literature are presented and discussed. Extensive utilization of current newspapers on a day-to-day basis is also stressed.

Prerequisite: (HLTH105) OR (HLTH154) OR (HLTH104)

Corequisite: None

HLTH402 Evaluation in Health Education and Promotion Programs

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

An orientation to evaluation for students in health education. The emphasis is placed on developing and interpreting evaluation projects including evaluation design, measurement and using evaluation outcomes for decision-making. Qualitative and quantitative assessments are included to provide the learner with a variety of tools to assess the efficacy of health programs.

Prerequisite: None

Corequisite: None

HLTH406 Biomechanics of Musculoskeletal Injury

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to provide students in health-related professions with an advanced clinical background in the relationship between human biomechanics and musculoskeletal injury. The course examines the coordination of movement and the forces placed on various tissues of the body by physical activity, specifically in athletics and industrial work environments. Students explore various prevention/treatment interventions and are exposed to clinical problems in orthopedics, rehabilitation, and epidemiologic research.

Prerequisite: (HLTH305)

Corequisite: None

HLTH407 Advanced Human Physiology and Mechanisms of Disease

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Designed to investigate areas of physiology at a deeper level than HLTH251 (Human Physiology) and explores alterations in the functioning of human organ systems, including the etiology, pathogenesis, and clinical manifestations of common disease states. Topics covered are those with significance to the biomedical professions.

Prerequisite: (HLTH128 AND HLTH129 AND HLTH130 AND HLTH131)

Corequisite: None

HLTH410 Community Health Organization Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to introduce the health educator to the work environment of community agencies, schools, hospitals, business and industry, as well as institutions of higher education. Professional skills include the ability to assess, plan, implement, coordinate and evaluate health education programs and services. Key areas of study also include the ability to deal with political action strategies, as a resource person, advocate for health education, effectively communicate, perform a job search, participate in public relations, conduct fund raising and grant procurement. This course includes the information and skills required by The National Commission for Health Education Credentialing, Inc, the Society for the Public Health Education, and the American Association for Health Education (SOPHE/AAHE), the accreditation body for health educators.

Prerequisite: (HLTH215)

Corequisite: None

HLTH415 Introduction to Pharmacology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This is an introductory course in pharmacology, which focuses on principles of drug actions and major classes of drugs emphasizing mechanisms of action, rationale for therapeutic use, side effects, and relevant toxicities. Emphasis will be placed on pharmacotherapeutics so as to promote an understanding of the rational use of drugs in the clinical setting.

Prerequisite: None

Corequisite: None

HLTH420 Clinical Evaluation & Rehab

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed for those students pursuing physical or occupational therapy, physician assistant, chiropractic, or other health related professions. Principles of evaluation and treatment of orthopedic dysfunction and procedures in physical/occupational therapy, as well as instruction in proper medical note taking, are taught by both lecture and laboratory sessions. This course is designed to be taken prior to the student's field experience.

Prerequisite: (HLTH128 AND HLTH130 AND HLTH200 AND HLTH305) OR (HLTH151 AND HLTH200 AND HLTH251 AND HLTH305)

Corequisite: None

HLTH430 Women's Health Issues

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Addresses relevant issues regarding women's health and puts this knowledge to use. Provides a forum for the presentation of medical and scientific information on the health needs of women. For the context of this course, women's health issues are defined as any matters that affect women's health differently from that of men.

Prerequisite: (HLTH105) OR (HLTH154) OR (HLTH104)

Corequisite: None

HLTH440 Research in the Health Sciences

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An orientation to research and evaluation for students in the health sciences. The emphasis is placed on developing, interpreting and evaluating research studies including design, measurement and use of evaluation outcomes for professionals in the health science field. Emphasis will be placed on the utilization of library skills, the reading and analysis of the professional literature and the development of a literature review and methodology on an issue of interest to the student in the health science field.

Restrictions Upon Student Registration: Health Science majors with 75 or more credits. MATH107 Basic Statistics preferred but not required or by permission of the instructor.

Prerequisite: (MATH107)

Corequisite: None

HLTH451 Advanced Human Anatomy

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

A study of the gross anatomical relationships between major structures, organs, vessels, and nerves. Human cadaver observation and dissection of all major systems of the body will be conducted by students and included in the laboratory sessions.

Prerequisite: (BIOL106 AND BIOL107 AND HLTH128 AND HLTH129 AND HLTH130 AND HLTH131)

Corequisite: None

HLTH470 Sex Education for the Health Sciences

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Addresses human sexuality from a health and medical perspective. Emphasis is placed on sexual anatomy and physiology, sexual health, effects of medical conditions on sexual functioning and other issues important in the health sciences.

Prerequisite: None

Corequisite: None

HLTH485 Professional Field Experience in Health Science

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 12 sh]

The Professional Field Experience provides students with on-the-job experience in a variety of health services and health care areas. The student works with professionals in the field and is exposed to individually selected programs, procedures and settings. Supervision is provided by both the instructional staff of the university and the cooperating agency.

Prerequisite: None

Corequisite: None

HLTH490 Health Science Capstone

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to be a culminating educational experience for the health science student, the health science capstone course integrates coursework, knowledge, skills and experiential learning to enable the student to demonstrate a broad mastery of learning across the curriculum. The course provides an opportunity to integrate previous courses and experiences in and outside of the health science major.

Prerequisite: (HLTH440) OR (HLTH404)

Corequisite: None

HLTH498 Health Science Seminar

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 3 sh]

An analysis of topics related to health science within a framework provided by the instructor. Examples include but are not limited to: contemporary issues in healthcare; a comparative analysis of healthcare systems in different countries; health issues related to population, economics, social and other factors; healthcare issues of special populations; the healthcare crisis in the United States; and emerging healthcare technologies and fields.

Prerequisite: None

Corequisite: None

HLTH600 Substance Abuse Issues

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The purpose of this course is to provide current, accurate, and documented information concerning drug use and abuse in society. Special attention will be given to prevention, intervention, and treatment. This course will aid individuals involved in education or developing educational programs dealing with drug awareness.

Prerequisite: None

Corequisite: None

HLTH601 Current Issues in Health

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Health is a dynamic and rapidly changing field that requires constant and continuous monitoring and study to keep abreast of contemporary developments. Selected current health topics drawn from popular and professional literature are presented and discussed. Extensive utilization of current newspapers on a day-to-day basis is also stressed.

Prerequisite: None

Corequisite: None

HLTH603 Gross Human Anatomy

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4sh]

Gross anatomy is studied regionally stressing relationships of major structures, organs, vessels, and nerves. Human cadaver observation and dissection by students are included in the laboratory sessions. All major areas of the body are covered. References to the relationship of anatomical structures to pathology, traumatic injury and medicine are stressed.

Prerequisite: None

Corequisite: None

HLTH625 Grief and Loss Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The purpose of this course is to recognize loss, grief and bereavement as an important part of life. The course contributes to general education through the development of knowledge and skills necessary to address loss, grief and bereavement in personal and professional roles. This course will aid individuals involved in education or developing educational programs concerning loss and grief including educational systems, communities and health care providers.

Prerequisite: None

Corequisite: None

HLTH630 Women's Health Issues

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Addresses relevant issues regarding women's health and puts this knowledge to use. Provides a forum for the presentation of medical and scientific information on the health needs of women. For the context of this course, women's health issues are defined as any matters that affect women's health differently from that of men.

Prerequisite: None

Corequisite: None

HLTH670 Sex Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Human sexuality from a biological, behavioral and cultural perspective. The component parts of each area are integrated to provide a comprehensive and total concept of human sexuality.

Prerequisite: None

Corequisite: None

HLTH698 Health Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A critical analysis and/or comparison of topics related to health science within a framework provided by the instructor. Examples include contemporary issues in healthcare; a comparative analysis of healthcare systems in different countries; health issues related to population, economics, social and other factors; healthcare issues of special populations; the healthcare crisis in the United States; and emerging healthcare technologies and fields.

Prerequisite: None

Corequisite: None

HONR101 Honors: Historical & Philosophical Studies 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This honors class emphasizes the study of philosophers from the early Egyptian period to the theories of Thomas Aquinas. The student can expect to read works by Plato, Aristotle, Socrates, Augustine, and books dealing with Taoism, Christianity, Islam, Hinduism, and a myriad of other philosophical topics.

Prerequisite: None

Corequisite: None

HONR102 Honors: Historical & Philosophical Studies 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An examination of major civilizations of the world since 1500, with special attention to the analysis of philosophical theories and historical developments. Topics include the Renaissance, Absolutism and Constitutionalism, the Enlightenment, Eastern and Islamic tradition, Revolutionary and Natural Rights theory, Conservatism and Romanticism, Liberalism and Nationalism, Marxism, Imperialism, Darwin, Freud, Existentialism, Feminism, and new and old directions in the Third World. Emphasis on an interdisciplinary approach to interpretation of classic and modern works.

Prerequisite: None

Corequisite: None

HONR105 Honors: Mathematics in Contemporary Society

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course presents a variety of mathematical topics that are relevant to contemporary intelligent citizenship. The chosen topics will be studied in detail through guided experimentation, discovery, conjecture formulation, and analysis. Collaborative learning will be emphasized throughout the course. This course is open to any student in the Honors Program.

Prerequisite: None

Corequisite: None

HONR110 Honors: Concepts in Biological Sciences

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on select current issues in this important field of inquiry. Classroom activities include lectures intended to familiarize students with basic concepts needed to understand technical aspects of the science. Class discussions and student presentations cover a range of issues of current interest. Laboratory experiences are directed by written protocol, computer simulation, and experimentation. This course meets General Education Natural Science requirement.

Prerequisite: None

Corequisite: None

HONR111 Honors: Composition/Literature 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Honors Composition and Literature 1 emphasizes the reading of classic works. A tentative reading list includes: Homer's Iliad, Virgil's Aeneid, Dante's Inferno, Shakespeare's Julius Caesar and Antony and Cleopatra and Milton's Paradise Lost. This is a tentative reading list that may change.

Prerequisite: None

Corequisite: None

HONR112 Honors: Composition/Literature 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Enables students to think critically by becoming better writers and readers. Students will examine, through their own writings and the writings of others, various views of God, self, and society. This course selects from such diverse authors as Donne, Pirandello, Ellison, Swift, Whitman, Eliot, O'Connor, Ginsberg, Mishima, Wiesel, Kingston, Achebe, Doerr, Hurston.

Prerequisite: None

Corequisite: None

HONR115 Honors: Earth Resources and Environment

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This inquiry-based course is designed to explore occurrences, distribution, and uses of Earth resources, including minerals, rocks, soil, energy, and water. Environmental degradation resulting from exploration and exploitation of Earth resources is investigated in the context of mining history in central Pennsylvania. The concept of sustainable development of natural resources and land is examined through lecture, laboratory exercises, field observations, and hands on experience with field and laboratory equipment commonly used by geoscientists.

Prerequisite: None

Corequisite: None

HONR180 Honors: Introductory Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Honors Introductory Psychology is a first course in psychology for honors students who wish a general education in the fundamentals of psychological investigation. Students will be exposed to the broad sub-fields and major schools of psychology with an emphasis on interdisciplinary study of psychological topics, small group interaction, debate, and development of investigatory skills. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

HONR200 Honors: Nutrition for Wellness

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to investigate contemporary nutrition concerns. While the course will emphasize the relationship of nutrition to overall good health and well being, it will specifically focus on an understanding of the most current issues related to sound nutritional practices.

Prerequisite: None

Corequisite: None

HPED014 Aerobics 1

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Aerobic fitness concepts and beginning level aerobic exercise.

Prerequisite: None

Corequisite: None

HPED016 Strength Training

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Strength training principles and individually developed programs and progressions.

Prerequisite: None

Corequisite: None

HPED060 Wellness for Life

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the interdependence of personal wellness and fitness. An emphasis will be placed on the development of a personal understanding of aerobic exercise options and their relevancy to health risk and fitness appraisal techniques. The course will involve regular activity. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

HPED102 Foundations of Physical Education Seminar

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Designed as an orientation to the physical education profession. This includes the nature and scope of the field, underlying scientific principles, a brief historical background, qualities of successful professionals, and observation/interaction field experiences. The role of physical education as part of the school system is investigated. Students start a professional portfolio.

Prerequisite: None

Corequisite: None

HPED103 Teaching Soccer

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5sh]

Designed as an activity course involving knowledge, fundamental skills, strategy and rules of soccer. Emphasis is placed on skill learning, performance analysis, and progressions. This activity course encompasses teaching methods, class management, and safety appropriate for all grade levels. Students will complete peer and self evaluations. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED105 Teaching Basketball

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5 sh]

Primarily an activity course involving a progression in basketball skills. The course includes an emphasis on skill progressions, teaching methods, strategy, and rules for the game of basketball. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED107 Teaching Field Hockey

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5 sh]

Designed as an activity course involving knowledge, fundamental skill, strategy and rules of the game of field hockey. The emphasis of this course is on skill learning, performance analysis, and progression. Additionally, the course encompasses teaching methods and class management and safety for appropriate age groups. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED109 Teaching Wrestling

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5 sh]

A methods and activity course involving teaching and learning fundamental wrestling skills and progressions. The course includes an emphasis on skill progressions, teaching methods, strategy rules, and skill analysis for the sport of wrestling.

Prerequisite: None

Corequisite: None

HPED111 Teaching Racquet Sports

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

A combination methods-activity course involving teaching and developing skill progression in tennis, badminton, racquetball and pickleball. The subject matter includes the basic skills, skill analysis of performance, teaching strategies, class organization, safety, lead-ups, game play, rules, and strategies of the games. In addition, the course provides students with the knowledge and skills of self-evaluation of teaching performance and peer evaluation. It is designed to meet the National Association of Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED112 Teaching Fundamental Movements & Rhythms

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5 sh]

Emphasizes the execution and analysis of basic movement patterns, rhythm and its relationship through an overall basic movement education approach. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED113 Teaching Volleyball

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5sh]

Designed as an activity course involving knowledge, fundamental skills, strategy and rules of volleyball. Emphasis is placed on skill learning, performance analysis, and progressions. This activity course encompasses teaching methods, class management, and safety appropriate for all grade levels. Students will complete peer and self evaluations. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED114 Aerobics 2

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Advanced aerobic conditioning principles and exercises.

Prerequisite: None

Corequisite: None

HPED119 First Year Seminar for Health and Physical Education Students

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to embed education program requirements into a required course and to support student achievement of Education program requirements.

Prerequisite: None

Corequisite: None

HPED120 Teaching Baseball & Softball

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5 sh]

Designed to teach the fundamental skills, strategies, and rules of baseball and softball and the techniques and methods of teaching these to students. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED128 Judo

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Introduction to beginning judo skills.

Prerequisite: None

Corequisite: None

HPED132 Beginning Swimming

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

For non-swimmers, or those not comfortable in the water, to develop basic skills and confidence.

Prerequisite: None

Corequisite: None

HPED133 Intermediate Swimming

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

For swimmers who wish to learn or improve stroke skills and aquatic fitness.

Prerequisite: None

Corequisite: None

HPED134 Swimming/Emergency Water Safety

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

This Swimming/Emergency Water Safety course in advanced swimming techniques is designed to enable the students to become proficient in basic swimming strokes and related aquatic skills. The students will also develop fundamental water safety skills. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED200 Teaching Aerobics

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5 sh]

Designed to involve students with organizational procedures, teaching progressions, safety factors, components of low-impact aerobics, step aerobics and circuit aerobic workouts (abdominal exercises, resistance bands, hand weights, jump ropes, etc.). It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED202 Teaching Leisure Sport Activities

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

This is a methods and activity course involving teaching, developing and learning skill progression in archery, bowling, golf, and football. The course includes an emphasis on skill progressions, teaching methods, strategies, rules and skill analysis. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED204 Psychological and Social Dimensions of Physical Activity and Sport

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Designed to introduce psychological and sociological dimensions of sport and physical activity as they relate to roles as teachers of physical activity and sport in educational settings. Students will be required to relate psychological and sociological principles of physical activity to curriculum and program development, teaching style and methods, and positive learning environments for sport and physical activity. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED206 Teaching Lacrosse

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5 sh]

Designed as an activity course involving knowledge, fundamental skills, strategy and rules of lacrosse. Emphasis is placed on skill learning, performance analysis, and progressions. This activity course encompasses teaching methods, class management, and safety appropriate for all grade levels. Students will complete peer and self evaluations. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED210 Teaching Folk/Social Dance

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

An introduction to a variety of dances which have been the tradition of many ethnic cultures. Emphasis will be placed on the performance of American Heritage, International, Social, and Square Dances. Teaching techniques specifically used for these categories of dance will be the primary focus for use in grades K-8 and for adult recreation. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: (HPED112)

Corequisite: None

HPED213 Elementary Physical Education Activity

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to cover activities in an elementary physical education curriculum. Emphasis is placed upon teaching techniques and safety procedures presented and practiced in peer teaching experiences. Developmental characteristics of children will be integrated into current curricular trends. Students will build a repertoire of elementary physical education activities selected from all categories. This course meets the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED215 Teaching Track

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to prepare the student with an understanding of and skill proficiency in track and field events. Skill analysis and teaching techniques will be stressed. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED218 Teaching Tumbling & Gymnastics

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5 sh]

Emphasizes developmentally appropriate skills for ages Kindergarten through 8th grade. Content includes progressions, teaching methods, assessment, basic mechanical principles and spotting. The students will demonstrate minimal competencies in skill execution. The course will provide opportunities for skill analysis, peer teaching, and writing a lesson plan. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED222 Lifeguard Instructor

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to train the student to teach courses in the American Red Cross (ARC) program, specifically, Basic Water Rescue, Lifeguard Training and Lifeguard Training Review, Lifeguard Management and Waterfront Lifeguarding. Students will also be able to teach CPR and Automated External Defibrillation (CPR/AED) for the Professional Rescuer and First Aid. Additionally students will be recertified as a lifeguard. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED225 Swimming/Lifeguard Training

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to train lifeguard personnel to develop the knowledge and skills required to provide the safest water safety conditions for the patrons of public and private aquatic facilities. Students have the opportunity to become certified in American Red Cross Lifeguarding, CPR & Automated External Defibrillation (CPR/AED) for the Professional Rescuer (PR), Oxygen Administration, First Aid, and Waterfront Lifeguarding. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED228 Synchronized Swimming

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5sh]

Students are introduced to the components of synchronized swimming with an emphasis on sculling, stroke adaptation and figure execution. Basic choreographic techniques are also explored. Students must have the ability to swim in deep water and knowledge of the basic swimming strokes: front crawl, sidestroke, backstroke, breaststroke, and elementary backstroke.

Prerequisite: None

Corequisite: None

HPED230 Aquacise

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5 sh]

The students are introduced to a lifetime sport exercise option utilizing the aquatic medium. Exercise areas, such as free-standing water drills, pool side standing drills, circuit training, running, and relaxation techniques, are emphasized. Students must have ability to swim in deep water and knowledge of the basic swimming strokes: front crawl, sidestroke, backstroke, breaststroke, and elementary backstroke.

Prerequisite: None

Corequisite: None

HPED234 Water Safety Instructor

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to train the student to teach the following American Red Cross (ARC) courses: 1) Parent & Child Aquatic Program; 2) Longfellow's Whale Tales Educational Program; 3) Progressive Swimming Courses (levels I-VI); 4) Water Safety Outreach Program; and 5) Safety Training for Swim Coaches. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED240 Intro to Physical Education & Sport in the Correctional Facility

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines the nature and scope of physical education and sport along with their allied disciplines in the correctional facility. An introduction to the study of physical education and sport in the correctional environment will be conducted at the local, state and federal levels. Students will be introduced to an overview of the principles of managing physical education and sport programs in the correctional facility environment. The various philosophies, principles of program design, selection of intramural and varsity sports, equipment procuring and facility management, budget and finance, routine procedures, law and legal liability, staff selection and organization, health, fitness, wellness and recreational pursuits will be reviewed.

Prerequisite: None

Corequisite: None

HPED245 Health and Physical Education in the Elementary School

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is designed for the elementary classroom teacher. The course will focus on the health content and process of the instructional phase of the health and physical education program in the elementary school through classroom and laboratory activities. The ten basic areas of appropriate health content for the elementary school curriculum will be examined. An introduction to the scope of appropriate physical education activities for the elementary school child will be presented. Correlation of physical education and health education activities with other aspects of the total elementary school curriculum will be stressed. Restricted to students in the Elementary Education, Early Childhood Education, and Special Education majors.

Prerequisite: None

Corequisite: None

HPED260 Principles and Practices of Conditioning

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to acquaint the future teacher/coach with the principles of teaching physical conditioning. Students are provided with a practical experience in program design and implementation. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED300 Advanced Techniques and Coaching Soccer

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

A comprehensive insight to coaching basic soccer skills. Emphasis is given to team organization aiming to improve the efficiency of the essential aspects of the game--how to score and prevent goals. Basic theory with a strong emphasis towards audio-visual teaching aids.

Prerequisite: (HPED103)

Corequisite: None

HPED301 Advanced Techniques & Coach Field Hockey

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Advanced techniques of modern field hockey. Consideration of the field hockey player as an athlete. Includes theoretical and practical work.

Prerequisite: (HPED107)

Corequisite: None

HPED302 Motor Learning Applied to Physical Education

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Introduces various theories of sport skill acquisition and information processing during learning of complex motor skills. Emphasis is placed on the application of practice, skill transfer, memory, practice schedules, motivation, feedback including knowledge of results, knowledge of performance, neuromotor functioning, and differences in motor abilities that are involved in motor skill performance. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: (HLTH130 AND HPED352)

Corequisite: None

HPED303 Advanced Techniques and Coaching Football

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Advanced techniques for coaching football. Designed to teach students in areas such as organization, administration, philosophy, teaching fundamentals, player evaluation and player-coach relationships.

Prerequisite: (HPED202)

Corequisite: None

HPED304 Advanced Techniques and Coaching Wrestling

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to familiarize students with the maturational, physiological and psychological aspects of coaching interscholastic wrestling. Special emphasis is given to techniques and to the organization and administration of interscholastic elementary and secondary programs.

Prerequisite: None

Corequisite: None

HPED306 Advanced Techniques Coaching Track

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

The philosophical, training and technical aspects of coaching all events of track and field. Also teaches the mechanics of organizing and running a home track meet including all events.

Prerequisite: (HPED215)

Corequisite: None

HPED307 Advanced Techniques and Coaching Basketball

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

Coaching basketball on the competitive level. Subject matter will include formulating a philosophy, selecting a squad, pre-season/in-season/post-season practice, scouting opponents, keeping team statistics, establishing training and grooming codes, basketball research, proper techniques, and strategy.

Prerequisite: (HPED105)

Corequisite: None

HPED308 Advanced Techniques & Coaching Baseball

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

This course is designed to aid in development of a specific philosophy of coaching baseball. The course will also be designed to prepare the student for specific problems including: teaching fundamentals, techniques, organization, responsibilities, coach-administration, coach-parent, coach-player relationships, and basic coaching ethics.

Prerequisite: (HPED105)

Corequisite: None

HPED310 Health/PE Professional Semester Techniques & Strategies Teaching

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Orient the students to the principles of a good physical education program. Special attention given to pedagogy and progressions that will lead to effective learning of physical activities. Application of the theory and methods is made during in-class teachings and participation in the public schools. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED311 Health/PE Professional Semester: Teaching Health

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to classroom teaching techniques in Health Education. Students gain experience in constructing units of instruction and in using a variety of teaching aids/strategies to enhance the teaching/learning process. Required for Health and Physical Education certification. Focuses on learning styles and active learning strategies. It is designed to meet the National Association for Sport and Physical Education (NASPE) and the American Association for Health Education (AAHE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED312 Health/PE Professional Semester: Adapted Physical Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Offer basic preparation in adapted physical education to physical education and special education majors who wish to expand their knowledge and ability to work with exceptional students. Emphasis is on identifying students with special needs, the causes and characteristics associated with each type of need, and acquiring competencies in appropriate instructional and management procedures. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED314 Health/PE Professional Semester: Measurement for Evaluation in Health and Physical Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to equip students with basic knowledge of statistical concepts and evaluation techniques used in health and physical education. Emphasis will be placed on how to measure performance, and the use of performance data to improve learning. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED315 Advanced Techniques and Coaching Softball

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

Designed to prepare the student to teach advanced skills and strategy, to analyze form and efficiency of movement and to handle athletes in competitive situations in softball.

Prerequisite: (HPED120)

Corequisite: None

HPED316 Advanced Techniques and Coaching Volleyball

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Advanced techniques, strategies and patterns of play for power volleyball. Theoretical and practical application of playing and officiating techniques.

Prerequisite: (HPED113)

Corequisite: None

HPED325 Teaching Nutrition

[Minimum Semester Hours: 1.5 sh; Maximum Semester Hours: 1.5 sh]

Health and Physical Education majors will explore teaching and curricular concepts in nutrition as part of a Health Education program. Students will apply their base knowledge of nutrition in the development of teaching units, which emphasize good health promotion practices.

Prerequisite: None

Corequisite: None

HPED350 Advanced Techniques and Coaching Swimming/Diving

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Prepares student with background and understanding of all areas for teaching and coaching competitive swimming and diving. In-depth attention given to competitive rules and regulations, swimming programs, and all individual skills; psychology of coaching swimmers and divers; types of training programs, pacework, and mechanical principles involved in swimming.

Prerequisite: None

Corequisite: None

HPED351 Management of Aquatic Programs & Facilities

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Students are introduced to the role of aquatic facilities in schools, communities and agencies. The planning and design of aquatic facilities are explored as well as basic management and operations.

Prerequisite: None

Corequisite: None

HPED352 Kinesiology

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Designed to increase one's understanding of human movement and to provide the foundation for critical application of analysis of physical activity and exercise. The course content includes both anatomical and biomechanical concepts. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: (HLTH151) OR (HLTH128)

Corequisite: None

HPED360 Advanced Techniques & Coaching Tennis

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

Enhances students' tennis skills and provides teaching/coaching experiences for competitive tennis. Stroke analysis and diagnosing player faults are stressed, as well as skill drills for correction of faults. Administrative duties of the tennis coach are presented along with other organizational duties such as scheduling, purchasing equipment, trips, practice sessions, and setting up tournaments.

Prerequisite: (HPED111)

Corequisite: None

HPED400 Professional Development

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Facilitate authentic learning experiences for pre-service health and physical education majors. Students observe and participate in school health and physical education settings, K-12. Students develop a professional portfolio supporting their experiences and professional philosophy. Community professionals and resources are used to complement the learning experience through the presentation of seminar-practicum related to current teaching tools each week. This course meets the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED410 Sociology of Sport

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students are introduced to the role of sport in society including issues in politics, economics, women's concerns, racism, media and social problems of athletes. Special attention will be given to current issues in society and their effect on and by sport.

Prerequisite: None

Corequisite: None

HPED425 Elementary Student Teaching and Professional Practicum

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

The capstone experience for pre-service teachers. Two student teaching experiences are provided at two levels, elementary and secondary. Supervised practice in classroom with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the students and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

HPED426 Practicum in Health & Physical Education

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Taken concurrently with HPED425, this course provides the forum for discussing problems common to all student teachers and possible solutions to these problems. Skills involved with obtaining a teaching position are also practiced and discussed.

Prerequisite: None

Corequisite: None

HPED427 Secondary Student Teaching and Professional Practicum

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

The capstone experience for pre-service teachers. Two student teaching experiences are provided at two levels, elementary and secondary. Supervised practice in classroom with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the students and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

HPED450 Physical Education Professional Field Experience

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 12sh]

The Professional Field Experience is designed to provide the student with the opportunity for on-the-job experience in a variety of physical education settings. The student will work with professionals in the field and be exposed to a wide variety of teaching, coaching, management, supervisory, and technical tasks. Experiences may take place in public and private agencies, schools, and athletic settings.

Prerequisite: None

Corequisite: None

HPED463 Organization & Administration of HPER

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to explore the philosophy of health and physical education, leadership skills, facilities and equipment management, personnel management, budgeting, risk management, public relations, marketing, consultation, and current issues. Students will be guided in the preparation of position papers, research reports, and presentations on topics covered with the intent of providing realistic pre-professional experiences in the field. It is designed to meet the National Association for Sport and Physical Education (NASPE) standards for accreditation.

Prerequisite: None

Corequisite: None

HPED493 Elementary Student Teaching and Professional Practicum

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

Provides the capstone experience for pre-service teachers. Two student teaching experiences are provided at two levels, elementary and secondary. Supervised practice in classroom with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the students and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

HPED494 Secondary Student Teaching and Professional Practicum

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

Provides the capstone experience for pre-service teachers. Two student teaching experiences are provided at two levels, elementary and secondary. Supervised practice in classroom with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the students and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

HUM328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Prerequisite: None

Corequisite: None

ITAL101 Italian 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the basics of the foreign language in question; the course is especially designed for students who wish to spend a semester at a university in a country where the language is spoken. The primary emphasis of the course will be on developing basic listening, reading and speaking skills in the language and increasing the students' awareness of the foreign culture.

Prerequisite: None

Corequisite: None

ITAL102 Italian 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The study of the foreign language in question, building on the material learned in the level I course. Especially designed for students who wish to improve their basic knowledge of the language in order to be able to study at the foreign university that supplied the instructor (completion of this course followed by a semester of study abroad at the university will satisfy the foreign language requirement).

Prerequisite: None

Corequisite: None

ITAL201 Italian 3

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of the foreign language in question, building upon the material learned in the Level 2 course and especially designed for students who wish to enhance their knowledge of that language.

Prerequisite: None

Corequisite: None

ITAL202 Italian 4

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of the foreign language in question, building upon the material learned in the Level 1, 2 and 3 courses and especially designed for students who wish to enhance their knowledge of that language.

Prerequisite: None

Corequisite: None

JAPN101 Japanese 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the basics of the foreign language in question; the course is especially designed for students who wish to spend a semester at a university in a country where the language is spoken. The primary emphasis of the course will be on developing basic listening, reading and speaking skills in the language and increasing the students' awareness of the foreign culture.

Prerequisite: None

Corequisite: None

JAPN102 Japanese 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of the foreign language in question, building on the material learned in the level I course. Especially designed for students who wish to improve their basic knowledge of the language in order to be able to study at the foreign university that supplied the instructor (completion of this course followed by a semester of study abroad at the university will satisfy the foreign language requirement).

Prerequisite: None

Corequisite: None

JAPN201 Japanese 3

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of the foreign language in question, building upon the material learned in the Level 2 course and especially designed for students who wish to enhance their knowledge of that language.

Prerequisite: None

Corequisite: None

JAPN202 Japanese 4

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The study of the foreign language in question, building upon the material learned in the Level 1, 2 and 3 courses and especially designed for students who wish to enhance their knowledge of that language.

Prerequisite: None

Corequisite: None

LANG119 First Year Seminar for Foreign Language Students

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

An introduction to the Lock Haven University Teacher Education Conceptual Framework and national standards for foreign language and English. The course guides students through the Stage I teacher education requirements and early field experience tasks, and addresses topics taught in generic freshman seminars.

Prerequisite: None

Corequisite: None

LANG125 Introduction to Cultures

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the people and cultures of a specific country or geographical area. Through lectures, discussions, and an array of visual materials, the course, taught in English, addresses such topics as traditions, religious practices, major historical events, social and political trends, language, film, cuisine, theatre and music, as well as literature. (Course may be taken multiple times and not count as a repeat.)

Prerequisite: None

Corequisite: None

LANG207 Secondary Education 1: Foreign Language

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Course description is missing.

Prerequisite: None

Corequisite: None

LANG313 Secondary Education 2: Foreign Language

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Course description is missing.

Prerequisite: None

Corequisite: None

LANG328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Language Seminar

Prerequisite: None

Corequisite: None

LANG415 Student Teaching and Practicum Secondary 1: Foreign Language

[Minimum Semester Hours: 7 sh; Maximum Semester Hours: 7sh]

Student teaching provides the capstone experience for preservice teachers. Two student teaching experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

LANG416 Student Teaching and Practicum Secondary 2: Foreign Language

[Minimum Semester Hours: 7 sh; Maximum Semester Hours: 7 sh]

Student teaching provides the capstone experience for preservice teachers. Two student teaching experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

LANG628 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of major films produced in Spain, with emphasis on the three leading directors: Luis Buñuel, Carlos Saura and Pedro Almodóvar. (All films are subtitled; no knowledge of Spanish is necessary for the seminar.) Basic concepts of film criticism will be applied to analyses of films and social history and aesthetic movements will be considered where necessary to an understanding of specific films.

Prerequisite: None

Corequisite: None

LART600 Core Introductory Seminar: Research Methods and Interdisciplinary Thought

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introductory seminar course acquainting students with the interdisciplinary nature of the Masters of Liberal Arts (MLA) program. Students will evaluate works (theories, philosophies, and research methods) that illustrate how interdisciplinary research leads to

new insights and discoveries. Students will outline a personal professional development plan, design their program of study, and practice the steps required to construct a capstone proposal.

Prerequisite: None

Corequisite: None

LART601 Cross Cultural Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Explores multiple intensive cross-cultural topics leading to the development of critical thinking, creativity, broad-based knowledge, and communication skills. Using interdisciplinary approaches from multiple cultural and social perspectives, the assumptions of the current age are challenged using the tools of research and discovery, while focusing on the perennial and international concerns of human life drawn from the humanities, the sciences and the arts.

Prerequisite: None

Corequisite: None

LART605 Women, Technology and the Information Age

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides a detailed inquiry into, and analysis of, some of the major social, philosophical and ethical issues concerning women in the age of information technology. Particular attention will be given to the following topics: the education of girls in the elementary and secondary classroom; the technological resources available to women, especially in developing nations; the impact on women in the workplace; the impact on women in terms of family life; the impact on society.

Prerequisite: None

Corequisite: None

LART620 Introduction to Deliberative Public Learning

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

This course introduces students to the theory and practice of deliberative citizen discourse in a democracy. The course links study of theory with participation in actual public forums. Principles of deliberative discourse are studied in relation to theories of democracy and then applied in public forums. Research on public learning and classroom learning are examined, especially in relation to standards-based outcomes assessment. Students will become effective moderators in public deliberative forums and interpreters of results. This course also prepares students for more advanced study of civic engagement and public scholarship and its application in the middle and secondary school settings.

Prerequisite: None

Corequisite: None

LART680 Capstone and Continuing Capstone Studies

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 6 sh]

A research-based seminar designed to facilitate the design, development, and implementation of either a creative or research-based MLA Capstone Project as the culmination of the Master of Liberal Arts program. Restricted to graduate-level students who have completed all other requirements for the Master of Liberal Arts degree, a minimum of 24 credits. Students must also have had their Capstone Proposals approved by the MLA Director.

Prerequisite: None

Corequisite: None

LART698 Liberal Arts Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An intensive seminar approach to the development of critical thinking, creativity, broad-based knowledge of worldwide culture and overall communication skills. Topics are designed to facilitate interdisciplinary approaches to the perennial and international concerns of human life, challenge the assumptions of the current age, and the discovery and understanding of ideas drawn from the humanities, the sciences, and the arts through the tools of research and academic development.

Prerequisite: None

Corequisite: None

MANG101 Introduction to Management Information Systems

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course provides an introduction to management uses of information and information technologies within and between business organizations. It provides students with the tools and background to understand and interpret information issues from a managerial perspective.

Prerequisite: (CISC150) OR (COMP150)

Corequisite: None

MANG220 Introduction to Personal Financial Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course introduces students to personal financial planning concepts and techniques. Financial planning for decision-making and comprehensive lifetime money management are emphasized.

Prerequisite: None

Corequisite: None

MANG305 Operations/Production Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The operations/production function of a business organization is introduced. Topic such as basic manufacturing processes, capacity planning and scheduling, facility location, inventory management, job design, productivity and quality control are investigated.

Prerequisite: (ECON101 AND MATH180) OR (ECON101 AND MATH141)

Corequisite: None

MANG315 Management: Concepts & Strategies

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A study of concepts of management as it applies to formal organizations. Students are introduced to the importance of effective management within organizations. The essential management skills in planning, organizing, staffing, directing, and controlling are examined.

Prerequisite: (ACCT110 AND ECON101)

Corequisite: None

MANG317 Entrepreneurship

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines the theory and application of launching successful new business ventures. Students will learn how to evaluate new business ideas, conduct research on their ideas, create a business plan, solicit funding, structure the new venture, test it, and launch it. They will also learn different exit strategies for entrepreneurs and how to evaluate them.

Prerequisite: (MANG315 AND MRKT200) OR (MANG315 AND RECR330)

Corequisite: None

MANG320 Human Resource Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Management of human resources is a primary function of all managers. Emphasis is placed on personnel processes necessary to comply with laws and regulations, and improving labor utilization and productivity.

Prerequisite: (MANG315)

Corequisite: None

MANG325 Financial Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students are introduced to the concepts of financial management with emphasis on the corporate sector. The course is designed to demonstrate financial analysis techniques for both short and long-term planning and control within the firm.

Prerequisite: (ACCT110 AND ECON101)

Corequisite: None

MANG326 Fundamental of Investment Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides students with basic knowledge about different investment securities and sources of information to enable them to make informed investment decisions. Concepts and methodologies to be used in selecting individual securities and in evaluating an investment portfolio are covered.

Prerequisite: (MANG220 AND MATH107) OR (MANG325 AND MATH107)

Corequisite: None

MANG328 Management Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Prerequisite: None

Corequisite: None

MANG345 Strategic Sustainability for Entrepreneurs

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Introduction to principles, practices, emerging strategies for creating and managing a sustainable business. Students investigate entrepreneurial opportunities created by environmental and social degradation; study the ethical responsibilities and challenges of sustainable business models; learn basic concepts, strategies and practices of sustainable business, develop a strategy for starting a sustainable business, learn and apply principles of organizing and managing a business based on sustainability.

Prerequisite: (MANG317)

Corequisite: None

MANG350 Small Business Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to help students develop realistic knowledge and practical skills needed to think and operate as a successful small business practitioner. Management-process skills critical to successful performance will be covered.

Prerequisite: (MANG315 AND MANG317)

Corequisite: None

MANG365 Organization Theory & Practice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An advanced course of particular interest to majors in Business Administration, Political Science, and Sociology. Theories of the nature and functions of organizations will be looked at from the perspectives of managers, workers, consumers, and citizens. The psychological, sociological, economic, political, and cultural impact of organizations will be studied.

Prerequisite: (MANG315) OR (POLI260)

Corequisite: None

MANG400 Business, Society and Government

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduction to applied business ethics from the perspective of the business manager. Course content emphasizes the interrelationships between business, societal, and government issues that involve the ethical responsibilities of managers, corporate social responsibility and corporate governance. Students will gain an increased understanding of how business relates to and operates within the social and legal environments, as well as awareness of contemporary social issues in management, cultural diversity in the workplace, international and globalization issues, and ecological and environmental issues. Students will develop and utilize skills in critical thinking, moral reasoning and individual decision making.

Prerequisite: (ECON101 AND MANG315 AND MRKT200 AND PHIL102) OR (ECON101 AND MANG315 AND MRKT200 AND PHIL425)

Corequisite: None

MANG425 International Business

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course adds an international emphasis to the student's knowledge of the principles of economics and various management concepts. Using a global business perspective, the course integrates functional management courses such as accounting, finance, marketing and personnel.

Prerequisite: (MANG315)

Corequisite: None

MANG430 International Financial Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

To better understand contemporary events and trends in international business, students are introduced to advanced concepts including financing international business operations and investments, decision making in the multinational firm, the international monetary system, foreign exchange transactions, and international financial institutions.

Prerequisite: (MANG325)

Corequisite: None

MANG475 Capstone Seminar in Strategic Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A study of major concepts and topics that encompass the field of strategic management. As a capstone seminar, it is an integrating experience in which students are required to apply knowledge and skills gained from previous coursework in the functional areas of business.

Prerequisite: None

Corequisite: None

MANG480 Topics in Business

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces in-depth aspects of management or finance and topics of current interest. Topics to be determined prior to the semester in which the course is offered.

Prerequisite: (MANG315 AND MANG325)

Corequisite: None

MATH009 Computational Skills

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This is a one-term course in arithmetic or pre-algebra and is intended for students who need to improve their basic computational skills. It contains work with whole numbers, fractions, decimals, ratio and proportion, percents, descriptive statistics, geometry and measures, signed numbers, and solving simple equations and problems. This course does not count towards graduation.

Prerequisite: None

Corequisite: None

MATH100 Essentials of Algebra

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This is a one-term introductory algebra course and is intended for students who have a firm background in arithmetic but need to improve their algebra skills in preparation for general education mathematics courses. It covers real and rational numbers and algebraic expressions, solving equations and inequalities, polynomials, graphs, systems of equations, radicals, and quadratic equations. MATH100 is restricted to students with appropriate placement test scores. Ineligible students will not be allowed to register.

Prerequisite: (MATH009)

Corequisite: None

MATH101 Topics in Math

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The mathematical content of the general education program. The topics presented come from a variety of mathematical fields such as: number theory, topology, set theory, algebra, and analysis. Each of the topics included in the course is subjected to careful mathematical analysis.

Prerequisite: (MATH009)

Corequisite: None

MATH102 Number Systems

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Along with Geometry and Statistics (MATH215), the course provides the mathematical ideas and skills for teachers of grades K-6. Topics included in Number Systems are problem solving, sets and relations, systems of numeration, number systems, and consumer mathematics.

Prerequisite: (MATH100) OR (MATH112) OR (MATH113) OR (MATH141) OR (MATH215)

Corequisite: None

MATH107 Basic Statistics 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The course presents both basic concepts and computational methods involved in the analysis of sample distributions, with consideration given to probability theory, and a thorough introduction to statistical inference.

Prerequisite: (MATH100) OR (MATH112) OR (MATH113) OR (MATH141)

Corequisite: None

MATH108 Basic Statistics 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The major topics are regression and analysis of variance. Multiple regression, along with both one and two-way analysis of variance, are studies.

Prerequisite: (MATH107)

Corequisite: None

MATH110 Consumer Math

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A practical course designed to provide the student with information and computational skills necessary for money management. Topics include: interest, taxes, buying, credit, banking, insurance, annuities, international business, investments, and financial planning.

Prerequisite: (MATH009)

Corequisite: None

MATH112 Intermediate Algebra

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Assists students in acquiring a thorough knowledge and proficiency in algebra. It introduces the student to the rules for operating in algebraic expressions and the justification for these rules. The contents of the course also include an introduction to the function concept, a thorough treatment of first and second-degree equations, topics in higher polynomial equations, and the algebraic structure of the number systems, such as the integers and rationales will also be explained. MATH112 is not open to Mathematics and Mathematics Education majors except by permission of the chairperson.

Prerequisite: (MATH100)

Corequisite: None

MATH113 Precalculus

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The major topics are: functions, polynomials, exponentials, logarithms, and trigonometric functions. This material is treated in the modern spirit with emphasis placed on both the development of pertinent concepts as well as the acquisition of essential

techniques. The presentation of the topics is balanced between theory and application. Although some treatment of the real numbers is included, the principal mathematical structure involved is the set of rational numbers and its subsets.

Prerequisite: (MATH112)

Corequisite: None

MATH119 First Year Student Seminar

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to embed education program requirements into a required course and to support student achievement of Education Program requirements. This course addresses topics taught in freshman seminars. Restricted to first-year secondary education mathematics majors or B.A. mathematics majors.

Prerequisite: None

Corequisite: None

MATH135 Applied Algebra and Trigonometry

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Concepts of functions and their graphs are defined and basic combinations of functions are introduced. Properties and graphs of linear, quadratic, and periodic functions are discussed. Trigonometric functions, identities and equations are discussed and graphs of various combinations of trigonometric functions are explored. Some properties such as areas and volumes of geometrical figures are discussed and vectors are introduced. Regression line and estimation of parameters are discussed. Applications in Physical Sciences are also explored.

Prerequisite: (MATH112)

Corequisite: None

MATH141 Calculus 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Algebraic functions, trigonometric functions, and elementary analytic geometry are reviewed. Limits of functions and continuity are introduced. The derivative of a function is defined and properties of the derivative are applied to a variety of problems. The integral is defined and the Fundamental Theorem of Calculus is introduced and used in the evaluation of integrals.

Prerequisite: (MATH113)

Corequisite: None

MATH142 Calculus 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The calculus of transcendental functions is presented. Integration is studied in depth, specifically techniques of integration and applications, as well as improper integrals. Conic sections and indeterminate forms are studied.

Prerequisite: (MATH141)

Corequisite: None

MATH180 Mathematics for Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the basic techniques for solving systems of linear equations and their extension to the simplex method for solving linear programming problems. Conditional probability is re-examined and extended to Markov Processes. If time permits, differentiation and integration from calculus will be introduced and employed to examine extreme value problems.

Prerequisite: (MATH107 AND MATH112)

Corequisite: None

MATH200 Secondary Mathematics Methods 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides the first in a two-course sequence of methods of teaching mathematics in grades 7-12. This course includes field experiences and practice teaching. The concentration in this course is on the nature of mathematics, psychology of learning mathematics, teaching of mathematics, history of mathematics education, national and state standards, lesson planning,

mathematics-oriented technology, and diversity issues. In addition to these, as the specific topics arise, the course helps students understand the mathematics concepts they will be teaching.

Prerequisite: (EDTF101 AND MATH141 AND PSYC103 AND SPEC204)

Corequisite: None

MATH205 Foundations of Mathematics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides the foundation that is necessary for students to make the transition to advanced mathematics. Basic topics of Mathematical Logic with deductive reasoning as applied to mathematical proofs are studied in detail. Mathematical Induction, Set Theory and Theory of Relations and Functions are studied with appropriate proofs.

Prerequisite: (MATH141)

Corequisite: None

MATH211 Linear Methods

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Vector spaces, matrices, linear transformations, and systems of linear equations are defined and the properties of these structures are developed through examples and, to a lesser degree, proof-theoretic techniques. Inner product spaces, eigenvalues, and eigenvectors are also explored. Euclidean vector spaces are emphasized throughout.

Prerequisite: (MATH141)

Corequisite: None

MATH215 Statistics and Geometry

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Along with Number Systems(MATH102), this course provides the mathematical ideas and skills for teachers of grades K-6. Topics included are probability and statistics, geometry and measurement, functions, and analytic geometry. Problem solving is emphasized throughout the course. Fulfills General Education Requirements.

Prerequisite: (MATH100) OR (MATH112) OR (MATH113) OR (MATH141) OR (MATH102)

Corequisite: None

MATH225 History of Mathematics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides a chronological development of the history of mathematics, interwoven with biographical sketches and outstanding achievement. Begins with the great civilizations of antiquity and progresses through the first few decades of the twentieth century. Addresses contributions from underrepresented groups in a variety of ways. Students study how contributions from culturally diverse populations have significantly aided the development of the field of mathematics, and how mathematics has changed the culture of diverse populations.

Prerequisite: (MATH141)

Corequisite: None

MATH243 Calculus 3

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Multivariate calculus and its applications are studied, along with three-dimensional analytic geometry. A study of series, culminating with power series representation for functions, is presented. Polar equations and their graphs are studied.

Prerequisite: (MATH142)

Corequisite: None

MATH244 Calculus 4

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Concludes the undergraduate study of calculus with a detailed treatment of vector analysis, culminating in the three integral theorems of vector analysis: the divergence theorem, Green's theorem, and Stokes' theorem.

Prerequisite: (MATH243)

Corequisite: None

MATH301 Differential Equations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The techniques for solving linear, nonlinear, homogeneous, and nonhomogeneous ordinary differential equations along their applications including initial-value and boundary-value problems.

Prerequisite: (MATH243)

Corequisite: None

MATH302 Number Theory

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Study of the divisibility properties of the integers. Topics include the congruence relations, arithmetic functions, Gauss' Law of Quadratic Reciprocity, and Diophantine equations as well as applications such as cryptography.

Prerequisite: (MATH205)

Corequisite: None

MATH307 Foundations of Geometry

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course is an axiomatic study of elementary geometries including finite geometry, absolute (neutral) geometry, Euclidean geometry, Lobachevskian geometry, and Riemannian geometry. Historical and cultural frameworks for these geometries are provided.

Prerequisite: (MATH205)

Corequisite: None

MATH310 Modern Algebra 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Investigates algebraic structures including groups, rings, and fields. Special emphasis is placed on the concept of isomorphism as well as applications to the algebra of the secondary educational classroom.

Prerequisite: (MATH205)

Corequisite: None

MATH311 Elements of Linear Algebra

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Systems of linear equations, determinant function, vector spaces, inner product spaces, linear transformations, eigenvalues, and eigenvectors are defined and properties of these structures are developed through proof-theoretic techniques. Applications to areas such as geometry, economics, physical science, social science are explored.

Prerequisite: (MATH205)

Corequisite: None

MATH312 Probability & Statistics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the mathematization of probability situations; the application of analysis and set theory to the models involved, and the statistics and statistical inference, which results. Both computational and functional approaches to probability are examined.

Prerequisite: (MATH243)

Corequisite: None

MATH316 Secondary Mathematics Methods 2

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Provides the second in a two-course sequence of methods of teaching mathematics in grades 7-12. This course includes field experiences and practice teaching. The concentration in this course is on instructional strategies for specific content, the problems

of practice, curriculum, unit and lesson planning, assessment, reading and writing strategies in mathematics, technology, diversity issues, adaptations for special needs, and professionalism. In addition to these, as the specific topics arise, the course helps students more deeply understand the mathematics concepts they will be teaching.

Prerequisite: None

Corequisite: None

MATH320 Linear Programming

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The theory of linear programming as well as applications in which linear programming finds its utility, including operations research/management science, game theory, and graph theory.

Prerequisite: (MATH211)

Corequisite: None

MATH328 Mathematical Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This seminar has featured such topics as the study of the history of mathematics, the impact and potential effects of computers upon society, and the study of mathematics as it occurs with society in the forms of puzzles, games, and other types of recreation.

Prerequisite: None

Corequisite: None

MATH350 Numerical Methods

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to numerical methods in the solution of non-linear equations, systems of linear equations, numerical integration, and numerical differentiation. The course will entail both mathematical rigor and computational aspects of some widely used numerical methods. Commercially produced programs from the IMSL library will be used.

Prerequisite: (MATH243)

Corequisite: None

MATH401 Real Analysis 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides a mathematically rigorous introduction to analysis of a real valued function of a single real variable. Mathematical logic, set theory, relevant topological and algebraic properties together with proof techniques are heavily utilized throughout the course. Convergence, Continuity, Differentiation, Integration and their interconnections are studied with mathematical integrity.

Prerequisite: (MATH205 AND MATH243)

Corequisite: None

MATH402 Real Analysis 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A continuation of MATH401 - Real Analysis I. Convergence questions regarding sequences and series of real functions are investigated. The Lebesgue integral is defined and its existence and properties are investigated. Several basis theorems about Fourier series are explained and proved. Real-valued functions of several real variables are defined and several related theorems are deduced.

Prerequisite: (MATH401)

Corequisite: None

MATH404 Applied Mathematics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The investigation of the concept of mathematical model as it is used in Applied Mathematics. Different models are presented as a means of providing solutions to practical problems.

Prerequisite: (MATH301)

Corequisite: None

MATH410 Intro to Topology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The course is an introduction to the elements of set theory and topology. Topics could include introductory set theory, a detailed study of the real line, topological spaces, metric spaces, functions and continuity, compactness, connectedness, completeness, product spaces, function spaces.

Prerequisite: (MATH401)

Corequisite: None

MATH412 Actuarial Mathematics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Formulation, analysis and interpretation of mathematical models in financial mathematics and interest theory, and how these concepts are applied in calculating present and accumulated interest for various streams of cash flows as a basis for use in: reserving, valuation, pricing, asset/liability management, investment income, capital budgeting, and valuing contingent cash flows. Financial instruments, including derivatives, and the concept of no-arbitrage are covered. This course covers materials for the second actuarial exam, exam FM.

Prerequisite: (MATH243)

Corequisite: None

MATH415 Student Teaching and Practicum Secondary 1: Mathematics

[Minimum Semester Hours: 7 sh; Maximum Semester Hours: 7 sh]

Student teaching provides the capstone experience for preservice teachers. Two student teaching experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

MATH416 Student Teaching and Practicum Secondary 2: Mathematics

[Minimum Semester Hours: 7 sh; Maximum Semester Hours: 7 sh]

Student teaching provides the capstone experience for preservice teachers. Two student teaching experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

MATH493 Student Teaching and Professional Practicum 1

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

Provides the first of two capstone experiences (one at each level appropriate to certification areas and grade level ranges) for pre-service teachers through a student teaching experience required for certification in secondary mathematics. Supervised practice in classrooms with certified teachers and regular practicum sessions, according to prescribed guidelines, introduce the student to the range and scope of a professional educator's responsibilities.

Prerequisite: None

Corequisite: None

MATH494 Student Teaching and Professional Practicum 2

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

Provides the second of two capstone experiences (one at each level appropriate to certification areas and grade level ranges) for pre-service teachers through a student teaching experience required for certification in secondary mathematics. Supervised practice

in classrooms with certified teachers and regular practicum sessions, according to prescribed guidelines, introduce the student to the range and scope of a professional educator's responsibilities.

Prerequisite: None

Corequisite: None

MATH628 Mathematical Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

This seminar has featured such topics as the study of the history of mathematics, the impact and potential effects of computers upon society, and the study of mathematics as it occurs with society in the forms of puzzles, games, and other types of recreation.

Prerequisite: None

Corequisite: None

MILS104 Leadership and Personal Development

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

The purpose of this semester is to introduce cadets to fundamental components of service as an officer in the United States Army. These initial lessons form the building blocks of progressive lessons in values, fitness, leadership, and officership. Additionally, the semester addresses "life skills" including fitness, communications theory and practice (written and oral), and interpersonal relationships. Upon completion of this semester, the cadets should be prepared to receive more complex leadership instruction.

Prerequisite: None

Corequisite: None

MILS105 Introduction to Tactical Leadership

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

This semester builds upon the fundamentals introduced in the previous semester by focusing on leadership theory and decision-making. "Life skills" lessons in this semester include: problem solving, critical thinking, leadership theory, followership, group interaction, goal setting, and feedback mechanisms. Upon completion of this semester, cadets should be prepared to advance to more complex leadership instruction concerning the dynamics of organizations.

Prerequisite: None

Corequisite: None

MILS204 Innovative Team Leadership

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Provides the principle leadership instruction of the MS Basic Course. Includes lectures on communication, leadership application, and problem solving skills with increased use of practical exercises/concepts.

Prerequisite: None

Corequisite: None

MILS205 Foundations of Tactical Leadership

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Continues student development focusing on officer leadership, principles of tactics, values, ethics, the Officer Corps, and the evolution of the United States Army from Vietnam into the Twenty-First Century.

Prerequisite: None

Corequisite: None

MILS304 Adaptive Tactical Leadership

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The focus of instruction is on building the leadership competence and confidence required of an Army officer through practical application of leadership positions during small unit operations. Involves applying the military decision-making process in planning, preparation and execution of small unit missions and the use of a standard structure and format for relaying that information. The course includes training in physical fitness and general military technical/ tactical instruction.

Prerequisite: None

Corequisite: None

MILS305 Leadership in Changing Environments

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The focus of instruction is on developing specific leader and soldier skills in preparation for attendance at the National Advanced Leadership Camp. Subjects include mission analysis and planning, operations orders, small unit offensive and defensive operations, terrain analysis/ land navigation, combat patrolling and physical fitness.

Prerequisite: None

Corequisite: None

MILS328 Military Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Prerequisite: None

Corequisite: None

MILS404 Developing Adaptive Leaders

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The focus is on Leadership, ethics, management, and decision-making process. A study of U.S. Army staff organization at various command levels and the responsibilities of the staffs as a whole and of each staff section. Emphasis is placed on the staff planning sequence. Written and oral military communication skills are also reviewed.

Prerequisite: None

Corequisite: None

MILS405 Leadership in a Complex World

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course prepares students for commissioning in the U.S. Army. Focus of the course includes study of U.S. national security interests, military justice, and the laws of land warfare. Career planning, military administration, and leadership review are other subjects covered in the final Military Science course before commissioning. The cadets will execute a Battle Staff ride and Capstone exercise.

Prerequisite: None

Corequisite: None

MILS450 Topics in Military Science

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An analysis of topics related to military science within a framework provided by the instructor. Possible topics may include, but are not limited to, contemporary issues in the U.S. military, such as Battle Command, Individual and Collective Training, Leader Development, Military Ethics, Joint Operations, Stability and Support Operations, and Modularity.

Prerequisite: None

Corequisite: None

MRKT200 Intro to Marketing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces students to marketing, which is the activity and processes for creating, communicating and delivering offerings that have value. Students will learn to analyze an industry for opportunities, segment and select appropriate target groups, analyze competitive offerings, plan for appropriate primary research, conduct online or retail tests, set up promotional plans, research appropriate media, and create a marketing budget -- all culminating in the creation of a full marketing plan.

Prerequisite: None

Corequisite: None

MRKT300 Consumer Behavior

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Introduction to the underpinnings of effective persuasion by examining buying units (e.g., people, family, businesses, and organizations) and the exchange processes involved in acquiring, consuming, and disposing of goods, services, experiences, and ideas. Concepts and research methods from marketing and the social and behavioral sciences are applied to describe and understand decision processes in the context of the global marketplace. Students examine how marketers use consumer data, including demographics, psychographics, geography and usage patterns, in product development, service, promotion, pricing, and distribution channels.

Prerequisite: (MRKT200)

Corequisite: None

MRKT305 Internet Marketing and e-Commerce

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces internet marketing as a rapidly changing tool in marketing. Students examine successful methods for online businesses, learn in what situations each is applicable and learn strategic marketing methods for each model. In addition to theory, there is a strong applications component to this course, including email, landing pages, autoresponders, web-generated databases, search and banner ads, and metatags that make web pages more attractive to search engine spiders.

Prerequisite: (MRKT200)

Corequisite: None

MRKT310 Entrepreneurial and Small Business Marketing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces students to the analysis and practice of marketing with limited financial and human resources. Students will learn theory and applications in recognizing opportunities, strategizing, testing, and rolling out launches, as well as marketing their new product or service to banks, venture capitalists, and other potential sources of funding. They will also learn to utilize a wide variety of appropriate no- or low-cost marketing tools.

Prerequisite: (MRKT200)

Corequisite: None

MRKT410 Marketing Research

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Reinforces and extends student knowledge of the theory and application of marketing research. Students will learn how to conduct marketing research (i.e., the systematic and objective process of generating information to aid in making marketing decisions). They will identify what information is required, design the best method for collecting information (both online and off), manage and implement the collection of data, analyze the results and communicate the findings and their implications.

Prerequisite: (MATH107 AND MRKT200)

Corequisite: None

MRKT480 Topics in Marketing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces in-depth aspects of marketing and topics of current interest. Topics to be determined prior to the semester in which the course is offered.

Prerequisite: (MRKT200)

Corequisite: None

MTEC403 Clinical Microbiology

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 8 sh]

Twelve months of clinical training in a hospital program accredited by the Registry of Medical Technologists of the American Society of Clinical Pathologists.

Prerequisite: None

Corequisite: None

MTEC404 Clinical Chemistry

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 8sh]

Twelve months of clinical training in a hospital program accredited by the Registry of Medical Technologists of the American Society of Clinical Pathologists.

Prerequisite: None

Corequisite: None

MTEC405 Clinical Hematology/Coagulation

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 8 sh]

Twelve months of clinical training in a hospital program accredited by the Registry of Medical Technologists of the American Society of Clinical Pathologists.

Prerequisite: None

Corequisite: None

MTEC406 Clinical Immunohematology

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 8 sh]

Twelve months of clinical training in a hospital program accredited by the Registry of Medical Technologists of the American Society of Clinical Pathologists.

Prerequisite: None

Corequisite: None

MTEC407 Clinical Immunology/Serology

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 8 sh]

Twelve months of clinical training in a hospital program accredited by the Registry of Medical Technologists of the American Society of Clinical Pathologists.

Prerequisite: None

Corequisite: None

MTEC408 Clinical Seminar

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 8 sh]

Twelve months of clinical training in a hospital program accredited by the Registry of Medical Technologists of the American Society of Clinical Pathologists.

Prerequisite: None

Corequisite: None

MUSI101 Introduction to Music

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces students to the vocabulary, the concepts, the techniques, and the style changes which attach to the art music of Western civilization. Representative compositions from all the ages of music history are explored in depth, particular attention being given to the stylistic characteristics of each selection. The major composers of each style period are introduced, and their changing role in society is discussed.

Prerequisite: None

Corequisite: None

MUSI103 Basic Musicianship

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Develops musicianship through the study and performance of music. Guided activities in voice, keyboard, and classroom instruments will be available for performance experience. Learning to read music notation will be emphasized.

Prerequisite: None

Corequisite: None

MUSI105 Exploring Contemporary Trends in Jazz, Rock, & Musical Theatre

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provide students with the opportunity to develop a structure for future listening experiences in the Rock, Jazz, and Musical Theater idioms. The unique characteristics of each idiom will be explored. The major thrust will be toward helping students develop the means to more logically assess and more independently evaluate these modern idioms as a reflection of contemporary society. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

MUSI106 Voice Methods and Foreign Diction

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

An introduction to the methodology of teaching individuals the art of singing. Students are introduced to various methods of developing solo performers with specific emphasis on foreign diction. In addition to English, specific languages include Latin, Italian, German, French, and Spanish. Field experiences are an integral part of this course.

Prerequisite: None

Corequisite: None

MUSI108 Music Explorations

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Introduces students to a multi-dimensional approach to music learning. Opportunities for musical creation and development of listening, performance and improvisation skills will be offered through a variety of music experiences, including collaborative performance sessions wherein non-band and non-orchestral instruments are employed. The course is an alternative general education elective for students desiring a non-traditional approach to music learning.

Prerequisite: None

Corequisite: None

MUSI109 Group Piano I

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Provides an introduction to the piano, supplements the Music Theory sequence by reinforcing theoretical concepts at the keyboard, and prepares music majors for their piano proficiency exams.

Prerequisite: None

Corequisite: None

MUSI110 Introduction to Singing

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

A study of choral and vocal literature of various style periods. Emphasis given to musicianship and singing techniques. Activities include a performance with the University Choir once each semester, and solo and small ensemble performance (or a research paper) as part of the class work. Open to all students who can sing in tune as determined by the instructor prior to registration. This course is recommended as a prerequisite to MUSI111.

Prerequisite: None

Corequisite: None

MUSI111 University Choir

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

Designed to acquaint the student with problems of musical performance, and to offer means and experiences to solve those problems (e.g., technical demands, interpretation of music, and exploration of representative).

Prerequisite: None

Corequisite: None

MUSI112 University Band

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to acquaint the student with problems of musical performance, and to offer means and experiences to solve those problems (e.g., technical demands, interpretation of music, and exploration of representative).

Prerequisite: None

Corequisite: None

MUSI113 Percussion Ensemble

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to acquaint the student with problems of musical performance, and to offer means and experiences to solve those problems (e.g., technical demands, interpretation of music, and exploration of representative).

Prerequisite: None

Corequisite: None

MUSI114 Jazz/Rock Ensemble

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to acquaint the student with problems of musical performance, and to offer means and experiences to solve those problems (e.g., technical demands, interpretation of music, and exploration of representative).

Prerequisite: None

Corequisite: None

MUSI115 Ensemble Small Choral

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to acquaint the student with problems of musical performance, and to offer means and experiences to solve those problems (e.g., technical demands, interpretation of music, and exploration of representative).

Prerequisite: None

Corequisite: None

MUSI116 Ensemble Small Instrument

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to acquaint the student with problems of musical performance, and to offer means and experiences to solve those problems (e.g., technical demands, interpretation of music, and exploration of representative).

Prerequisite: None

Corequisite: None

MUSI118 String Methods - Lower Strings

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

Study of playing and teaching cello and string bass fingerings and bowing techniques. Survey of string playing techniques needed to conduct at the elementary intermediate and advanced levels of ensembles.

Prerequisite: None

Corequisite: None

MUSI119 Woodwind Methods - Concert Winds

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Study of playing and teaching flute, oboe, and bassoon in a school band/orchestra or private lesson setting, by learning the fundamentals of playing each instrument. This will be accomplished by reading about and also playing each instrument.

Prerequisite: None

Corequisite: None

MUSI120 Music Literature

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Provides music majors with an introduction to great works from the repertoire of Western Art Music, and to the aesthetic values and technical features which are emblematic of their genres.

Prerequisite: None

Corequisite: None

MUSI121 Applied Music 1

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

A concentrated approach to musical performance (voice, piano, etc.) through individual instruction in private lessons. Encompasses playing technique, tone production, sight-reading, performance practice, and interpretation of significant music literature.

Prerequisite: None

Corequisite: None

MUSI122 Applied Music 2

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Similar to MUSI121 with twice as much lesson time.

Prerequisite: None

Corequisite: None

MUSI124 Percussion Methods

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Provides a survey of the performance practice of the percussion family of instruments. Special emphasis is placed on proper techniques for the beginning percussionist in the elementary program and it is expected that students acquire proficiencies in all areas of percussion performance.

Prerequisite: None

Corequisite: None

MUSI128 String Methods - Upper Strings

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

Study of playing and teaching violin and viola via the study of fingerings and bowing techniques. Survey of string playing techniques needed to conduct rehearsals at the intermediate, advanced, and artist-level ensembles.

Prerequisite: None

Corequisite: None

MUSI129 Woodwind Methods - Transposing Winds

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Study of playing and teaching clarinet and saxophone in a school band/orchestra or private lesson setting by learning the fundamentals of playing each instrument. This will be accomplished by reading about and also playing each instrument.

Prerequisite: None

Corequisite: None

MUSI200 Music for Children with Special Needs

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Examine methods, strategies, techniques, tools, materials, and the reasons for utilizing music to provide learning experiences for children with special needs. Develop techniques and skills to help children comprehend and appreciate music's unique potential for expression. This course does not satisfy the general education requirement. Field experiences are an integral part of this course. The student must have successfully completed PRAXIS I.

Prerequisite: None

Corequisite: None

MUSI202 Music for Early Childhood

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Deals with (1) experiences in musicality and basic music skill development, (2) strategies, tools, and materials that will encourage musicality in young children, (3) research findings that provide a basis for defining the cognitive, kinesthetic and attitudinal objectives for musical behavior that can be expected of young children, and (4) strategies for developing relationships between musical concepts and their counterparts in other subject areas. Does not fulfill General Education Requirements.

Prerequisite: None

Corequisite: None

MUSI203 Music Theory 1

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Presents basic concepts in music theory, including fundamentals of music notation, basic principles of meter, intervals, major/minor scales, key signatures/circle of fifths, chord structures, melodic structures, and principles of part writing/voice leading using root position and inverted chords. Non-chord tones introduced. Motivic, phrase, and period structures are analyzed. The course will include basic exercises in sight-singing and ear training and also a study of blues, jazz, and other nontraditional idioms.

Prerequisite: None

Corequisite: (MUSI109 AND MUSI206)

MUSI204 Music Theory 2

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

A continuation of Music Theory 1. Basic concepts of traditional harmony are extended and chord vocabulary is enlarged. Partwriting with inverted chords and non-chord tones is studied. Motivic, phrase, and period structures are analyzed. Sight-singing and ear training skills development are continued. Jazz forms, scales, chord structures and notational techniques will be reviewed and expanded upon.

Prerequisite: (MUSI109 AND MUSI203 AND MUSI206)

Corequisite: None

MUSI205 Music Technology

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

A survey of music software and hardware for the professional musician. Topics include music notation, sequencing and MIDI, audio recording and editing, synthesis, multimedia, and web publishing.

Prerequisite: None

Corequisite: None

MUSI206 Sight Singing

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Provides music majors with basic sight-singing skills, including the use of solfege, singing of scales and arpeggiated chords and chord progressions, melodies in different clefs, and rhythmic reading.

Prerequisite: None

Corequisite: None

MUSI210 Group Piano II

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

A continuation of MUSI109 Group Piano 1; supplements the Music Theory sequence by reinforcing theoretical concepts at the keyboard, and prepares music majors for their piano proficiency exams.

Prerequisite: (MUSI109)

Corequisite: None

MUSI300 Conducting

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Introduces the art and craft of conducting. It is a skill-development course which begins with score reading and the use of the baton in presenting basic, standard, patterns, then moves through skill development in areas of progressively greater difficulty. These include the left-hand techniques, expressive gestures, reading large ensemble scores, presenting complex beat patterns, and rehearsal techniques.

Prerequisite: None

Corequisite: None

MUSI301 Music for Elementary Grades

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides experiences in (1) ways of using the activities of listening, moving, singing, playing classroom instruments, and creating music to teach concepts basic to music's structure, (2) strategies for making relationships between music and other subject areas, (3) locating and using resource materials, and (4) participation in clinical teaching situations with peer groups and with children.

Prerequisite: None

Corequisite: None

MUSI302 Applied Instrumental and Choral Conducting

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Development of the fundamental skills acquired in MUSI300. Emphasis will be placed on each participant personally developing a musical leadership methodology based upon creative problem solving. The successful participant will develop cognitive skills and habits which are used in both instrumental and choral rehearsals. Field experiences are an integral part of this course.

Prerequisite: (MUSI300)

Corequisite: None

MUSI303 Instrumental and Vocal Methods

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2sh]

Introduce the music education major to the methods and techniques for teaching instrumental and vocal music at the middle and high school levels. It is a survey of practical considerations for working with instrumental and choral groups, with emphasis on audition procedures, seating arrangements, score preparation, rehearsal planning, problem-solving strategies, development of individual and ensemble musicianship, and selection of appropriate repertoire. Field experiences are an integral part of this course.

Prerequisite: (MUSI300)

Corequisite: None

MUSI305 Jazz Studies

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Addresses cultural diversity and offers historical and musical insights into a style of music other than the traditional Western European tradition. American jazz style will raise student's awareness of unique musical developments within this country. Active listening skills through masterworks drawn from the historical style periods of jazz will be emphasized. Social and technological changes during the past 25 years will be examined in depth to derive possible directions for the future of jazz.

Prerequisite: None

Corequisite: None

MUSI308 Music Marketing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Offers insight into music marketing, its structure, historical economic trends and the impact of technology on business and marketing practices in the music industry. Current trends in music marketing practices, music promotion and management as well as retail sales will be examined. The use of technology including web site design, social networking sites and the distribution of digital media will be explored.

Prerequisite: None

Corequisite: None

MUSI312 Music Before 1750

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Comprises a study of the history and literature of music of the Middle Ages, Renaissance, and Baroque periods. Using representative, period masterpieces, the class will examine the variety of genres, forms, techniques and practices of composition as developed by the major composers in France, Italy, Germany (Austria) and the Franco-Netherlands provinces. A study of the social history and the artistic ideals of the periods and geographic regions, as pertinent to musical development, will be included.

Prerequisite: None

Corequisite: None

MUSI313 Music of the Romantic Period

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the history and literature of music of the 19th century. Includes an examination of the variety of genres, forms, techniques and styles of composition used and developed by major composers representing nations/cultural domains on the European continent from the West across to Russia. Attention is given to the national schools that emerged during this period. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

MUSI314 20th Century Music

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The history and literature of music dating from c.1880 to the present. It includes an examination of the various schools and new idioms and ideals that European, North, Central and South American composers have fostered. Emphasis is placed upon the new techniques and innovations that have become part of the musical language of this century. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

MUSI315 American Music

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A study of the various native composers, compositions, epochs, and musical styles which constitute the history of American music from Colonial times to the present. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

MUSI317 Elementary Music Methods

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Acquisition of the philosophy, skills and knowledge pertinent to designing meaningful and affective/effective instruction in music listening, music performing, and music creation at pre-secondary levels. Field experiences are an integral part of this course.

Prerequisite: (MUSI204)

Corequisite: None

MUSI318 Secondary Music Methods

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the organization and administration of the comprehensive music program in junior/middle and senior high schools. Topics include the study of vocal and instrumental ensemble development, as well as techniques and materials for other types of music classes. Field experiences are an integral part of this course.

Prerequisite: None

Corequisite: None

MUSI319 Symphonic Music

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of music for the symphony orchestra. Examples from several periods, composers, and styles are compared and evaluated. The growth and development of the symphony orchestra and the effect of this growth on the music produced are also considered. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

MUSI320 Music for the Theatre

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Study of music written in various dramatic forms in several cultures. Examples from opera, oratorio, ballet, musical comedy, operetta, and films are examined in terms of style, technique, historical context, and dramatic function. Comparisons of the uses of theater music in various cultures will be emphasized. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

MUSI322 Music Theory III

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A continuation of the Music Theory sequence. Modulation and tonicization by the use of secondary chords and other techniques are reviewed. Chromatic harmony (mode mixture, Neapolitan chords, augmented sixth chords, etc) is explored. The concept of enharmonic modulation is explored, along with extended harmonies and other advanced harmonic techniques common to the late 19th century. Jazz chord structure and notation will be reviewed and expanded upon. There will be an introduction and overview of standard musical forms.

Prerequisite: None

Corequisite: None

MUSI323 Music Theory IV

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A continuation of the Music Theory sequence Enharmonic/"distant" sequence. Enharmonic/"distant" modulation, extended harmonies, nontraditional scales, chord planning, etc are studied leading to an overview of non-tonal harmonic procedures. Musical form is studied in detail. Jazz chord structure and notation will be reviewed and expanded upon, as well as common jazz scales, forms, and improvisational techniques.

Prerequisite: None

Corequisite: None

MUSI325 Classroom Measurements and Assessments

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Provides a basis for developing professional competencies, emphasizing the selection, development, interpretation and use of a wide range of assessment instruments appropriate to different types of learning goals and educational purposes. Field experiences are an integral part of this course.

Prerequisite: None

Corequisite: None

MUSI326 Brass Methods - Lower Brass

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Provides music concentration majors with historical, pedagogical, and performance practice experiences on the low brass instruments (trombone, baritone/euphonium, and tuba). It will provide students with a basic knowledge of playing and teaching techniques and low brass literature.

Prerequisite: None

Corequisite: None

MUSI328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This seminar will provide a general survey of music as it is used in the daily lives of various ethnic groups. The study will enable the student to (1) understand the ways in which folk and ritual music represent a particular ethnic group, (2) recognize and distinguish the sounds of representative styles of ethnic music, and (3) develop techniques for the study of ethnic music that will enable the student to carry out independent research. Fulfills humanities seminar in Liberal Arts. Does not fulfill General Education Fine Arts Requirement.

Prerequisite: None

Corequisite: None

MUSI330 Advanced Studies in Music

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 3 sh]

Assists and guides the student in pursuing a topic or project in a highly specialized area of music as determined by both the instructor and the student. Specific areas of study would be those not covered through standard course offerings.

Prerequisite: None

Corequisite: None

MUSI336 Brass Methods - Upper Brass

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Provides music concentration majors with historical, pedagogical, and performance practice experiences on the high brass instruments (French horn and trumpet). It will provide students with a basic knowledge of playing and teaching techniques and high brass literature.

Prerequisite: None

Corequisite: None

MUSI340 Music Theory IV/Orchestration and Music Technology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Provides music majors with knowledge of the rudiments of orchestration, including ranges, keys, and clefs of different instruments; the timbral qualities of combinations of instruments; and the historical practice of orchestration by past masters.

Prerequisite: (MUSI205 AND MUSI300 AND MUSI323)

Corequisite: None

MUSI343 Music Theory V/Orchestration

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Prerequisite: None

Corequisite: None

MUSI400 Music History After 1750

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Provides music majors with knowledge of the history of Western Art Music from 1750-present, including the Classical, Romantic, and Contemporary eras.

Prerequisite: (MUSI312)

Corequisite: None

MUSI493 Student Teaching and Professional Practicum: Elementary Music Education

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

Provides a capstone experience for pre-service teachers through the student teaching experiences in an elementary school setting. Supervised practice in classrooms with certified teachers, and regular practicum sessions introduce students to the range and scope of professional educator's responsibilities. Field experiences are an integral part of this course.

Prerequisite: None

Corequisite: None

MUSI494 Student Teaching and Professional Practicum: Secondary Music Education

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

Provides a capstone experience for pre-service teachers through the student teaching experiences in a secondary school setting. Supervised practice in classrooms with certified teachers, and regular practicum sessions introduce students to the range and scope of professional educators' responsibilities. Field experiences are an integral part of this course.

Prerequisite: None

Corequisite: None

MUSI615 American Music

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course will focus on the various native composers, compositions, and styles which constitute the history of American music from the Colonial times to the present. Content will survey mainstream styles of serious American art music, folk music, and popular music. Units of study will encompass music of Native Americans, Afro-Americans, and Latin Americans.

Prerequisite: None

Corequisite: None

MUSI628 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Music Seminar

Prerequisite: None

Corequisite: None

NURS101 Nursing 1

[Minimum Semester Hours: 8 sh; Maximum Semester Hours: 8 sh]

Introduces the student to nursing, person and health, which are basic concepts to the practice of nursing. Emphasis is placed on communicative and observational skills that permit the assessment of the basic needs of individuals and their families. The study of the human needs of individuals provides a foundation for inquiry into the nurse's role in providing nursing care based on the nursing process.

Prerequisite: None

Corequisite: None

NURS102 Nursing 2

[Minimum Semester Hours: 8 sh; Maximum Semester Hours: 8 sh]

A continuation of Nursing 101, Nursing I, focuses on human needs according to Maslow. The course addresses the individual's needs related to activity/rest, safety/security, oxygen/carbon dioxide exchange, love/belonging, and psychosocial well being. Emphasis is placed on communication, and teaching/learning skills as an essential part of the nursing process in the care of individuals and families. The family during the childbearing years and during the first year of life is studied in order for the student to develop beginning competencies in those technical skills necessary to carry out the nursing care plan for individuals of all ages and in selected health care settings.

Prerequisite: (NURS101)

Corequisite: None

NURS201 Nursing 3

[Minimum Semester Hours: 8 sh; Maximum Semester Hours: 8 sh]

An in-depth study of the human needs according to Maslow with emphasis on the application of the nursing process as the foundation for nursing care. Communication and health teaching are integrated as major strategies for assisting individuals and families to care for themselves in health and illness. Levels of wellness and alterations in human needs are studied as the course focuses on individual needs relating to nutrition/elimination, love/belonging, and psychosocial well being.

Prerequisite: None

Corequisite: None

NURS202 Nursing 4

[Minimum Semester Hours: 8 sh; Maximum Semester Hours: 8 sh]

An extension of NURS201 - Nursing III. Continues to increase the knowledge base of human needs with application of the nursing process to individuals and families with alterations in their level of health. Communication and health teaching are integrated as major strategies for assisting individuals and families to care for themselves in health and illness. Levels of wellness and alterations in human needs are studied as the course focuses on individual needs relating to sexuality, oxygen/carbon dioxide exchange, safety/security, and activity/rest.

Prerequisite: (NURS102 AND NURS201)

Corequisite: None

NURS205 Nursing Field Experience

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 3 sh]

This elective field experience course will be offered in the Summer annually after satisfactory completion of Nursing 101 and 102. This experience will allow the student to pursue a personal interest in an area of nursing. Potential areas that may be utilized include: Emergency Department (ED/ER); Intensive Care (CPU, ICU, NICU); Medical/Surgical (Med.-Surg.); Obstetrics/Gynecology (OB-GYN); Operating Room (OR, PARR); Pediatrics (PEDS); Clinics with Nurse Practitioners; Community Health Agencies. Levels of wellness and alterations in human needs will be studied. Communication and health teaching will be utilized by the students as major strategies for assisting individuals and families to care for themselves in health and illness. NOTE: This course may not be substituted for a required course within the A.S.N. program.

Prerequisite: None

Corequisite: None

NURS212 Nursing Transition

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2sh]

This seminar is designed as a transition course for nursing students in the last semester of their educational program. It provides an overview of historical events that have affected the evolution of nursing and presents the issues and trends that are molding the nursing profession of the new century. Prepares the student for graduation and the work world of nursing. This course runs concurrently with NURS202.

Prerequisite: None

Corequisite: None

NURS305 Nursing Informatics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to applications of informatics systems in nursing practice and education. Integrates various theories, assisting students to develop skills for information literacy in the context of communication, self-expression, social control in a diverse society, and in the use of electronic patient records and tele-health. Provides an introduction to technology in nursing. Learning experiences provide for the development of baseline informatics and verbal and nonverbal professional communication styles needed in the healthcare delivery arena.

Prerequisite: None

Corequisite: None

NURS310 Foundations for Professional Practice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A seminar course focused on the theoretical foundations of professional practice and theory development in nursing.

Prerequisite: None

Corequisite: None

NURS315 Pathophysiology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Studies the physiologic mechanisms altered by illness, injury, or disease processes in humans throughout the life span. Fundamental disease processes, specific illnesses, and their effects on homeostasis as well as the links between pathophysiology, diagnosis, and

therapeutic interventions are emphasized. Students will critically analyze diverse client presentations of selected illnesses for symptomatology, pathophysiology, and health care implications.

Prerequisite: None

Corequisite: None

NURS320 Health Assessment

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on identification and demonstration of advanced assessment techniques with emphasis on normal and abnormal findings throughout the life span. Learning experiences provide for development of a systematic approach to physical assessment to facilitate integration of assessment findings and major health deviations. Principles of therapeutic communication will be emphasized as an adjunct to performing a health assessment.

Prerequisite: None

Corequisite: None

NURS325 Pharmacology for Nursing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to provide an overview for nurses of drug therapy integrating the use of the nursing process in pharmacokinetics. The emphasis is to provide a big picture approach to the systemic use of drugs in the treatment and or management of diseases.

Prerequisite: None

Corequisite: None

NURS350 Care of the Critically Ill

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4sh]

Provides fundamental information about the nursing care of clients across the life span in critical care settings. Clinical activities will focus on advanced concepts of critical care related to multi-organ/system function and dysfunction.

Prerequisite: (CHEM111 AND HLTH415 AND NURS315 AND NURS320) OR (HLTH415 AND NURS315 AND NURS320 AND RECR205)

Corequisite: None

NURS410 Nursing: Home, Community and Public Health

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Reviews current and evolving roles of home health, community and public health nurses. Health promotion, health teaching, economic, political, legal and ethical influences, environmental issues, epidemiology, communicable diseases and vulnerable populations are addressed. Focus is on the application and integration of health and wellness concepts.

Prerequisite: (NURS310 AND NURS320)

Corequisite: None

NURS420 Nursing Leadership and Management Practice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A capstone nursing course with focus on leadership and management issues in health care. Seminars provide opportunities for students to share commonalities and unique aspects of their practical experiences in nursing . Course culminates in a concentrated external experience in an area and agency selected by the student.

Prerequisite: (NURS310)

Corequisite: None

NURS430 Nursing: Contemporary Issues, Policy and Politics

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Exploration of policy and politics, strategies of policy development and political action, and application of such strategies in four spheres: workplace, government, organizations, and community. Focuses on the political roles and responsibilities of professional nurses in efforts to discuss unresolved issues of interest to nurses, their colleagues, and consumers of health care.

Prerequisite: (NURS420)

Corequisite: None

NURS490 Nursing Research

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on the theoretical basis of research methodology with emphasis on analyzing, critiquing, and interpreting nursing research. Development of a research proposal based on an identified nursing problem will be completed.

Prerequisite: (MATH107)

Corequisite: None

NURS498 Health Science Seminar

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 3 sh]

An analysis and/or comparison of topics related to health science within a framework provided by the instructor. Examples include but are not limited to contemporary issues in healthcare, a comparative analysis of healthcare systems in different countries, health issues related to population, economics, social and other factors, healthcare issues of special populations, the healthcare crisis in the United States, and emerging healthcare technologies and fields.

Prerequisite: None

Corequisite: None

PHAP100 Introduction to Nanoscience

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

Designed to introduce aspects of nanotechnology and its applications to science, medicine and industry. This course presents this evolving field and discusses potential future influence in everyday life. Course includes tours of the nanofabrication facilities at Lock Haven University and Pennsylvania State University.

Prerequisite: None

Corequisite: None

PHAP201 Materials, Safety and Equipment Overview for Nanofabrication ** (Nanotechnology Center/PSU)******

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course provides an overview of basic Nanofabrication processing equipment and material chemistry and handling procedures. The focus is on cleanroom protocol, safety, environmental and health issues in equipment operations and material handling.

Prerequisite: None

Corequisite: None

PHAP202 Basic Nanofabrication Process ** (Nanotechnology Center/PSU)******

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course provides an overview of basic processing steps in Nanofabrication (contact lithography, basic etching and deposition techniques). The majority of the course details a step-by-step description of the equipment and processes needed to fabricate devices and structures.

Prerequisite: None

Corequisite: None

PHAP203 Thin Films in Nanofabrication ** (Nanotechnology Center/PSU)******

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course covers advanced thin film deposition and etching practices in Nanofabrication. Students will receive hands-on experience in depositing and etching dielectric, semiconductor, and metallic materials using state-of-the-art tools and practicing many of the steps critical to Nanofabrication of semiconductor devices including microelectronics, MEMs devices, display structures, and structures used in biotechnology fields.

Prerequisite: None

Corequisite: None

PHAP204 Advanced Lithography and Dielectrics for Nanotechnology ** (Nanotechnology Center/PSU)******

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course covers all aspects of advanced lithography from design and mask fabrication to pattern transfer and inspection. It will cover all aspects from substrate preparation to exposure with emphasis on systems and techniques that define patterns and illumination schemes as well as e-beam, X-ray and ion beam lithography. Engineering dielectrics are also discussed.

Prerequisite: None

Corequisite: None

PHAP205 Materials Modification in Nanofabrication ** (Nanotechnology Center/PSU) ******

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course will cover in detail the processing steps used in modifying material properties in Nanofabrication. It is also an intensive study of metals, dielectric materials including their mechanical, optical and electrical characteristics that gives the student further insight into advanced device fabrication.

Prerequisite: None

Corequisite: None

PHAP206 Characterization, Packaging and Testing Nanofabricated Structure ** (Nanotechnology Center/PSU) ******

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

This course examines a variety of techniques and measurements essential for controlling device fabrication and final packaging. It will also examine mechanical and electrical characteristics of nanostructures for biological/biomedical applications including the manufacture of micro fluidic channels for biological analysis.

Prerequisite: None

Corequisite: None

PHAP300 Thin-film Science and Technology

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Designed to teach the fundamentals of thin-film science and technology including fabrication, characterization of the thin-film structures and their optical, mechanical, electromagnetic properties. It will also address some aspects of low dimensional structures, including both the conceptual principles and experimental techniques of nanoscale science, such as refractive index engineering, dynamical light scattering, photonics, luminescence mechanism for doped nanomaterials, three dimensional nanostructures, active nanostructures, and functional devices.

Prerequisite: (PHYS170 AND PHYS171)

Corequisite: None

PHAP400 Modern Optoelectronics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces the fundamentals of the physical phenomena related to generation, propagation, manipulation and detection of light, and the application of these phenomena in solid state devices. Special topics will include interactions of light with materials systems of current importance (e.g. semiconductors, nanosized metal particles, biological macromolecules). Pre- or Co-requisite: PHYS315 and PHYS370

Prerequisite: (PHYS315 AND PHYS370)

Corequisite: None

PHAP410 Material Science

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces fundamental physical phenomena related to solid state materials. Covers the mechanical, electrical, magnetic, optical and thermal properties of solid state materials, as well as defects in solids and how they influence the materials' properties. The applications emphasized in this course concern the developments of nanomaterials and nanostructures. Pre- or co-requisite: PHYS315 and PHYS370

Prerequisite: None

Corequisite: (PHYS315 ANDPHYS370)

PHAP431 Advanced Applied Physics Laboratory

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Experimental work drawn from an undergraduate foundation in physics including areas of current research particularly in nanotechnology. Experimental methods and analysis are used, with emphasis on independence and individual initiative in the planning, execution, and presentation of research. Students may repeat for credit.

Prerequisite: (PHYS315)

Corequisite: None

PHIL101 Problems in Philosophy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces a number of fundamental philosophical problems traditional to philosophy. Primary emphasis is on problems of knowledge, introduced through analysis of the works of several major philosophers. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHIL102 Ethics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to moral philosophy. Considers the problems of values, ideals, and standards of human action, both individual and social. Selected readings in a wide range of traditional and modern ethical approaches. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHIL105 Philosophy of Religion

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the basic problems of religion, such as the nature of religion, the existence of God, knowledge of God, the language of religion, immortality, and eschatology. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHIL106 Social & Political Philosophy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the traditional and contemporary philosophical issues of man in society, especially those problems concerning justice which exist as a result of human government. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHIL110 Critical Thinking

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on creating in students an understanding of the many facets and pitfalls of good and bad reasoning. Emphasis is divided between the theoretical, logical issues and the practical application of good reasoning in a wide variety of contexts, both personal and public. This course does not meet the philosophy general education requirement.

Prerequisite: None

Corequisite: None

PHIL201 Classical Philosophy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The development of philosophy from Thales to Plotinus, covering the Greek and Roman periods. Major emphasis on Plato and Aristotle. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHIL202 Medieval Philosophy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the development of philosophy from Augustine in the fourth century A.D. to William of Ockham in the 14th century. Special emphasis is placed on Augustine and Aquinas. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHIL204 Modern Philosophy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An historical study of the major figures and movements in philosophy from the 17th to the 19th century. The accent is upon the problems and methods of philosophy. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHIL205 Contemporary Philosophy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The major movements in the philosophy of the 20th century. Considers idealism, Neo-Thomism, Marxism, Phenomenology and Existentialism, Logical Positivism, Linguistic Analysis, and Naturalism. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHIL206 American Philosophy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A general study of philosophy in the U.S. since the middle of the 19th century. The emphasis is upon the works of those philosophers of this country who have developed themes peculiarly American. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHIL207 Asian Philosophies

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the major schools of Indian and Chinese philosophy which developed out of Hinduism, Buddhism, Taoism, and Confucianism. The emphasis will be on the metaphysical, epistemological, and ethical insights of the various systems. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHIL210 19th Century Philosophy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey of the major European and American philosophers of the 1800's, including Hegel, Marx, Mill, Schopenhauer, Nietzsche, Kierkegaard, and James. Emphasis will be placed on the influence of these thinkers on contemporary thought. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHIL215 Canadian Philosophy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces Canadian Philosophy and sets forth Canadian Philosophy as a distinct system of inquiry. In particular, close attention will be paid to the relationship between Canadian philosophy and Canadian intellectual history. Particular focus will be placed on the philosophical notion of community and its impact on Canadian society. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHIL301 Philosophy of Science

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An investigation of the nature and techniques of scientific explanation. Study of such questions as the nature of scientific method, the logic of scientific explanation, theory construction, causality, and the nature of the laws of science. Primary emphasis on the philosophical questions involved in the work of science and the link between science and philosophy. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHIL304 Existentialism

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of how 20th century existentialism, both in its religious and its atheistic forms, grows out of the work of its three 19th century precursors: Kierkegaard, Nietzsche, and Dostoevsky.

Prerequisite: None

Corequisite: None

PHIL305 Metaphysics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the most general questions concerning the nature of reality including such problems as the reality of an external world, the significance of human existence, the nature of time, space, substance, cause, and the status of natural laws.

Prerequisite: (PHIL***)

Corequisite: None

PHIL306 Theory of Knowledge

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines the basic problems of epistemology, such as the nature, the reliability, and the proper objects of knowledge. Considers questions pertaining to the nature of truth, theories of perception, the problems of universals, concepts, and categories.

Prerequisite: None

Corequisite: None

PHIL307 Philosophy of Art

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An analysis of various concepts of aesthetics. Investigation into some of the fundamental questions involved in the philosophy of art. Aestheticians, both historical and contemporary. The application of aesthetic theory to art forms both past and present. Aesthetics approached from a worldwide outlook. Probes deeply into the arts for broader aesthetic understanding.

Prerequisite: None

Corequisite: None

PHIL308 Logic

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Standard logical notions and techniques. Chief emphasis on forms of argument, modes of valid inference, traditional and modern approaches to deductive argument, and inductive theory. Syllogistic and mathematical logic. The course does not meet the philosophy general education requirement.

Prerequisite: None

Corequisite: None

PHIL312 Ethical Theory

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A historical survey of ethical theorizing from the Ancient Greeks to the 21st Century. It will focus on the various justifications offered for competing ethical theories, and the problems that their critics raised about each of them. Comparisons and contrasts between Western and Eastern approaches to ethical decision making and the inculcation of moral virtue, and with feminist approaches to ethical theorizing, will also be drawn.

Prerequisite: (PHIL102)

Corequisite: None

PHIL315 Philosophy of Law

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The exploration of such broad questions as What is law?, How are law and morality related?, and How should we best conceptualize legal reasoning? Specific topics might include, among others, legal theories, equality, rights and freedoms (speech, religion, etc), civil disobedience and violence, and gender and race in the American legal and social context.

Prerequisite: (ENGL100) OR (HONR111) OR (PHIL***)

Corequisite: None

PHIL328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This seminar is intended to familiarize students with the questions that philosophers and individuals have always asked and to help them realize that, although the answers change, the questions remain the same. Different aspects and questions may be dealt with in several philosophy seminars.

Prerequisite: (ENGL100) OR (HONR111)

Corequisite: None

PHIL400 Ethics and the Environment

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Explores philosophical questions related to the human relationship with, and use of, the environment. Topics may include preservation vs. conservation, holistic ethics, anthropocentrism, wilderness, feminist approaches to environmental ethics, Deep Ecology, radical environmental activism, and environmental justice. Emphasis is given to Western ethical traditions, though other perspectives may be included.

Prerequisite: None

Corequisite: None

PHIL415 Ethical Issues in the Health Care Professions

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of some of the major ethical issues in the various health care professions. Particular analysis will include, but not be limited to the following: the allocation of medical resources; consent and truth telling in medicine; genetic engineering; reproductive technologies; and advanced directives. Professionals from various health care fields will be invited to speak on selected topics.

Prerequisite: None

Corequisite: None

PHIL425 Ethics in Business & Industry

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An in-depth survey of the relevance of ethical theory to the making of professional decisions in business and industry. An extensive introduction to ethical theory and logic is followed by a discussion of difficult ethical dilemmas that professionals must confront every day. Emphasis is placed on hiring and firing practices, advertising and marketing, environmental issues, and the impact of industry on society at large. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHIL615 Ethical Issues in the Health Care Professions

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An examination of some of the major ethical issues in the various health care professions. Particular analysis will include, but not be limited to the following: the allocation of medical resources; consent and truth telling in medicine; genetic engineering; reproductive technologies; and advanced directives. Professionals from various health care fields will be invited to speak on selected topics.

Prerequisite: None

Corequisite: None

PHIL620 Bio-Medical Ethics: An Overview

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

The purpose of this course is to provide an overview of some of the major ethical issues in medicine and possible approaches to resolving ethical dilemmas in that context. Particular attention will be given to the following topics: the allocation of medical resources, consent and truth telling in medicine, confidentiality, and advanced directives.

Prerequisite: None

Corequisite: None

PHIL625 Ethics in Business & Industry

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An in-depth survey of the relevance of ethical theory to the making of professional decisions in business and industry. An extensive introduction to ethical theory and logic is followed by a discussion of difficult ethical dilemmas that professionals must confront every day. Emphasis is placed on hiring and firing practices, advertising and marketing, environmental issues, and the impact of industry on society at large.

Prerequisite: None

Corequisite: None

PHIL628 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Graduate philosophy seminar.

Prerequisite: None

Corequisite: None

PHIL690 Current Philosophies of Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the philosophies of education that have had an impact on education today. The works of educational philosophies and critiques of their positions will be read and discussed. The implications for today's educational experiences will be discussed.

Prerequisite: None

Corequisite: None

PHYS101 Matter & Energy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces the underlying physical principles of energy generation and consumption. Topics include the atomic and subatomic structure of matter, forms of energy, energy conservation, thermodynamics, heat engines, electromagnetic induction, radioactivity, nuclear reactors, nuclear fusion, solar radiation, solar collectors, gravitational force, and tidal power. Knowledge is achieved using scientific inquiry methods - conceptual understanding, laboratory exercises, and activities developing the skills for quantitative evaluation of processes. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHYS102 The Mechanical Universe

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Introduces what is traditionally called Newtonian Mechanics including one- and two-dimensional motion, Newton's Laws, momentum, energy, and circular and simple harmonic motion. The course employs a laboratory-first, inquiry-oriented format that places emphasis on the investigation of problems in the physical world with the results of investigations being used to drive further instruction.

Prerequisite: None

Corequisite: None

PHYS105 Engineering Graphics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Use and care of drawing instruments; proper weights and types of lines for clear-cut, and complete graphics representation; useful geometrical construction; lettering; freehand sketching, orthographic projection; auxiliary and sectional views; pictorial representation with emphasis on isometric drawing; dimensioning; true lengths and shapes. Emphasis on practical application and development of the ability to think in three dimensions. (Prior to fall 2005, course was 2.0 sh)

Prerequisite: None

Corequisite: None

PHYS110 How Things Work

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The student is introduced to the current understanding of the physical universe in terms of fundamental principles of physics. Basic concepts are studied and related to common phenomena and application found in everyday life as well as more exotic phenomena one may come across in the news or popular-science media. In the laboratory component of this course, the student will gain hands-on experience with principles of physics and use of the scientific method. Fulfills general education natural science requirement.

Prerequisite: None

Corequisite: None

PHYS130 Physics 1

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Introductory mechanics, heat and sound. The mechanics of solids, liquids and gases; thermometry; calorimetry; heat transfer, the production and nature of sound waves, including musical sounds. Fall semester each year, and Summer sessions of even years.

Prerequisite: (MATH113) OR (MATH141) OR (MATH142) OR (MATH243) OR (MATH244) OR (MATH135)

Corequisite: None

PHYS131 Physics 2

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Introductory magnetism and electricity, reflection and refraction; optical instruments, spectra, and interference. Spring semester each year, and Summer sessions of even years.

Prerequisite: (PHYS130)

Corequisite: None

PHYS135 Meteorology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to meteorology through the systematic study of the atmosphere including composition and structure. Analysis of the laws and underlying principles of the atmospheric change and motion. The origin and development of weather features and their significance in weather forecasting. Study of global weather features and climate and climate change. Fulfills General Education Lab Science Requirement

Prerequisite: None

Corequisite: None

PHYS140 Astronomy of the Solar System

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to the methods and discoveries of astronomy focusing on the solar system. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHYS145 Stars, Galaxies, and Cosmology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Presents the methods and discoveries of astronomy focusing on stars, galaxies and cosmology. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PHYS170 Intermediate General Physics 1

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

An introduction to motion, sound, and heat employing the methods of calculus and vector analysis. Co-requisite: MATH141.

Prerequisite: None

Corequisite: (MATH141)

PHYS171 Intermediate General Physics 2

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

An introduction to electricity, magnetism and optics employing the methods of calculus and vector analysis. Co-requisite: MATH142

Prerequisite: (PHYS170)

Corequisite: (MATH142)

PHYS250 Heat

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An intermediate course in heat. More intensive development of basic concepts and principles in the study of the properties of gases and in thermodynamics. Temperature measurements, expansivity, specific heats, thermal conductivity of solids and liquids, thermal properties of gases, changes of phase, and heat engines.

Prerequisite: (PHYS130) OR (PHYS170)

Corequisite: None

PHYS290 Electronics

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Introduces the analysis of linear electric circuits including nodal and mesh analysis, network theorems and their applications for direct-current circuits, transient circuits, and AC steady state analysis. Uses linear algebra, differential equations, and complex variables for circuit analysis. Incorporates the concept of building linear models for electronic components for the case of operational amplifiers and diodes. Develops practical skills for circuit simulation using computer software, assembling electronic circuits, and performing basic electrical measurements.

Prerequisite: (PHYS171)

Corequisite: None

PHYS310 Physics Lab Development & Supervision

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 2sh]

Supervised experience in development and supervision of physics laboratory activities. Will include opportunity to design, develop, and construct laboratory and demonstration apparatus in physics, and to conduct laboratory classes under direct supervision of a physics faculty member. Offered by individualized instruction.

Prerequisite: (PHYS171)

Corequisite: None

PHYS314 Atomic & Nuclear Physics w/o Lab

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to modern physics: atomic structure and spectra, radiation, wave and particle aspects of matter, quantum theory, radioactive decay, nuclear reactions, nuclear structure, elementary particles. Does not include a laboratory.

Prerequisite: None

Corequisite: None

PHYS315 Modern Physics

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

An introduction to modern physics: atomic structure and spectra, radiation, wave and particle aspects of matter, quantum theory, radioactive decay, nuclear reactions, nuclear structure, elementary particles.

Prerequisite: (MATH243 AND PHYS131) OR (MATH243 AND PHYS171)

Corequisite: None

PHYS325 Optics

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

An intermediate course in optics. Geometrical and physical optics, reflection and refraction at surfaces, lenses, interference and diffraction, elementary spectroscopy and polarization of light. Applications to the study of optical instruments.

Prerequisite: (MATH243 AND PHYS131) OR (MATH243 AND PHYS171)

Corequisite: None

PHYS328 Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The seminar explores various topics in the physical sciences with an emphasis on physics. Specific topic selection is based on the expertise and interest of the faculty.

Prerequisite: None

Corequisite: None

PHYS330 Mechanics 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An intermediate course in Newtonian mechanics with emphasis on mathematical principles and methods. Topics include vector calculus, statics, dynamics, momentum and energy conservation, oscillations, central force motion, and two dimensional rigid body dynamics.

Prerequisite: (PHYS171)

Corequisite: None

PHYS331 Mechanics 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Continuation of Mechanics with an emphasis on the variational methods of Lagrangian and Hamiltonian formalisms. Topics include generalized coordinates, symmetries, central forces, Euler's equations, normalized coordinates, strings and vibrations, and mechanics of rigid bodies in three dimensions.

Prerequisite: (PHYS330)

Corequisite: None

PHYS345 Mathematical Methods of Physics

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Introduces the mathematical techniques of theoretical physics. This introduction will include the partial differential equations and boundary value problems associated with wave motion, the diffusion of heat and quantum mechanical probability, and electromagnetic potentials and fields.

Prerequisite: None

Corequisite: None

PHYS350 Quantum Mechanics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An advanced undergraduate level introduction to the principles, formalism and results of quantum mechanics; including: historical background, Schrodinger equations, particle in box, harmonic oscillator, one dimensional crystals, hydrogen atom, angular momentum, light, introduction to perturbation theory.

Prerequisite: (MATH244 AND PHYS315)

Corequisite: None

PHYS370 Electricity & Magnetism

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An intermediate course in electricity and magnetism focusing on Maxwell's equations and their properties. The course will concentrate on the concepts associated with electromagnetic fields and will introduce the mathematics used for their description.

Prerequisite: (MATH142 AND PHYS171)

Corequisite: None

PHYS371 Electrodynamics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of electricity and magnetism that emphasizes fields within materials, electromagnetic radiation, and methods of solving static and dynamical problems.

Prerequisite: None

Corequisite: None

PHYS391 Problems in Physics

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 4 sh]

Independent study and research under the direction of the Physics staff. For advanced students, who may register for the course more than once. Each semester.

Prerequisite: None

Corequisite: None

PHYS431 Advanced Physics Laboratory

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 3sh]

Experimental work drawn from an undergraduate foundation in physics including areas of current research. Sophisticated experimental methods and analysis will be used, with emphasis on independence and individual initiative in the planning, execution, and presentation of research. A student may repeat for credit.

Prerequisite: (PHYS315)

Corequisite: None

PHYS628 Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This seminar explores various topics in the physical sciences with an emphasis on physics. Students are expected to research and develop knowledge on subjects discussed in the seminar, where the expertise of the instructor is used to explain and interpret the more technical aspects. Students will participate in class discussions using a knowledge base formed in part by class assignments. Students will give presentations to the class. Specific topic selection is based upon the expertise and interest of the designated science faculty. Examples include: Biographies of 20th Century Physicists, Science in the 20th Century, Pseudoscience, Science and Science Fiction, and Popularization of Science.

Prerequisite: None

Corequisite: None

PLGL210 Legal Writing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Writing and correctly citing legal briefs, memoranda and letters constitute the primary content. Considerable attention given to grammar, style and organization.

Prerequisite: None

Corequisite: None

PLGL300 Introduction to Paralegal Studies

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Considers issues related to the legal system, the courts, court rules, the legal profession, ethics, the regulation of law practice and related matters.

Prerequisite: None

Corequisite: None

PLGL305 Legal Research

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Considers the process of researching legal matters through the use of reporters systems, state and federal codes, Shepard's, legal dictionaries, law digests, legal encyclopedias, Lexis/Westlaw and related materials.

Prerequisite: (PLGL300)

Corequisite: None

PLGL310 Tort Law

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Considers reading, briefing and analyzing tort case law; aspects of negligence such as duty, breach, causation, defenses and damages; defamation; malpractice; strict liability; product liability; intentional torts; misrepresentation; vicarious liability; joint liability; insurance; automobile insurance; and bad faith.

Prerequisite: None

Corequisite: None

PLGL400 Civil Litigation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Considers court rules, the litigation process, discovery, interrogatories, affidavits, depositions, interviewing, evidence and investigation, service of process, motions, answers, pleadings, alternative dispute resolution, obtaining a default judgment, testing law suits, trial preparation and related matters.

Prerequisite: (PLGL300 AND PLGL305)

Corequisite: None

PLGL405 Criminal Law Practice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Considers Constitutional law, the incorporation doctrine, search and seizure, self incrimination, electronic eavesdropping, probable cause, the exclusionary rule, stop and frisk, right to counsel, suspect identification, interrogation, bail, entrapment, related matters, and the role of the paralegal in such matters.

Prerequisite: (PLGL300)

Corequisite: None

PLSH101 Polish 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the basics of the foreign language in question; the course is especially designed for students who wish to spend a semester at a university in a country where the language is spoken. The primary emphasis of the course will be on developing basic listening, reading and speaking skills in the language and increasing the students' awareness of the foreign culture.

Prerequisite: None

Corequisite: None

PLSH102 Polish 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of the foreign language in question, building on the material learned in the level I course. Especially designed for students who wish to improve their basic knowledge of the language in order to be able to study at the foreign university that supplied the instructor (completion of this course followed by a semester of study abroad at the university will satisfy the foreign language requirement).

Prerequisite: None

Corequisite: None

PLSH201 Polish 3

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of the foreign language in question, building upon the material learned in the Level 2 course and especially designed for students who wish to enhance their knowledge of that language.

Prerequisite: None

Corequisite: None

PLSH202 Polish 4

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of the foreign language in question, building upon the material learned in the Level 1, 2 and 3 courses and especially designed for students who wish to enhance their knowledge of that language.

Prerequisite: None

Corequisite: None

PLSH328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Prerequisite: None

Corequisite: None

POLI101 Political Science

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A comprehensive approach to political fundamentals: theory and organization of the modern state; the theory, processes, and ideologies of all types of governments. Basic to further study of the structure and function of government. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

POLI105 American National Government

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The general principles, structure and functions of the American federal government. The rights and duties of citizenship, civil rights, political parties, special interest groups. The growing importance of the regulatory functions of government. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

POLI107 World Politics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students are introduced to the fields of international relations, foreign policy and international political economy. The course reviews the evolution of the current international system and introduces basic theories and models used by political scientists and others in analyzing world politics. Primary emphasis is placed on the evolving post-Cold War "World Order" and the major issues confronting it. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

POLI200 Introduction to Political Inquiry and Action

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Prepares students for advanced study in political science by introducing the various modes of political inquiry, competing theories of democracy, and the range of methods and information resources used in the study of politics and public policy.

Prerequisite: (POLI101) OR (POLI105) OR (POLI107)

Corequisite: None

POLI210 State & Local Government

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines the political process, governmental institutions, and the politics of governing at the state and local levels today. Special effort will be made to examine Pennsylvania examples. Fulfills political science/economics general education requirement.

Prerequisite: None

Corequisite: None

POLI230 Political Parties & Elections

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

This is an intermediate level undergraduate course intended to build upon knowledge acquired in introductory courses in political science. The course examines the role function of political parties and electoral processes in the U.S. and elsewhere. In broader terms, the course explores the theoretical and practical linkages among political parties, electoral processes, and the development and maintenance of representative democracy.

Prerequisite: (POLI101) OR (POLI105)

Corequisite: None

POLI250 US Foreign Policy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of the nature of foreign policy, the manner in which foreign policy is formulated and executed in a democracy, and the objectives and limits of U.S. Foreign Policy. Emphasis is placed on U.S. Foreign Policy since 1945.

Prerequisite: None

Corequisite: None

POLI260 Intro Public Administration

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Survey of governmental administration in the U.S. with particular emphasis on the national government. Organization and management, budgeting, personnel, planning and public relations.

Prerequisite: None

Corequisite: None

POLI301 Comparative Government

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An analysis of the methods and scope of the comparative study of government, and an examination of political systems in selected countries with a focus on well established industrialized system.

Prerequisite: None

Corequisite: None

POLI302 Business Law 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Familiarizes the student with the fundamental principles of business law as they relate to the development and application of common, general, criminal and property law as well as contract arrangements. Much of the course will involve the study and analysis of significant cases in each of the aforementioned legal areas.

Prerequisite: None

Corequisite: None

POLI303 Business Law 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Familiarizes the student with the fundamental principles of business law as they relate to the businessman. Contract and commercial law as well as fundamental knowledge of government regulatory schemes. The survey will touch upon the traditional concepts of contracts and negotiable instruments and will also explore the anti-trust laws, occupational regulations, fair credit and equal employment opportunity, workmen's compensation, unemployment compensation, and other miscellaneous fields of law.

Prerequisite: (POLI302)

Corequisite: None

POLI305 Congress and the Presidency

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Examines the nature of the relationship and interdependencies between the Congress and the Presidency of the United States. Focuses on the constitutional powers of these respective institutions of American national government. Substantive areas that will be examined include, but are not limited to: the historic origins of federalism and the separation of powers model of American Constitutionalism; the changing role(s) and functions of the respective institutions regarding domestic and foreign policy; the electoral processes that shape and influence Congressional and Presidential decision-making; the impact and consequences of the rise of the federal bureaucracy in the U.S.; and the social, political, and economic forces that have shaped contemporary Congressional and Presidential relations.

Prerequisite: None

Corequisite: None

POLI308 African Politics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey and analysis of African politics. Provides a grounded understanding of the various contextual stages (pre-colonial, colonial, post-colonial, and post-post-colonial) that have shaped and continue to influence African politics and policy.

Prerequisite: None

Corequisite: None

POLI310 Criminal Justice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Study of the institutions and processes by which criminal justice decisions are made, with emphasis on their legal and political aspects. The roles and interactions of law and rights, prosecution and defense, courts, police, and correctional institutions. Focus on the conflicting values and principles underlying criminal justice.

Prerequisite: None

Corequisite: None

POLI312 Media and Politics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of the effects of the media (print, broadcast, electronic, and film) on political behavior in the American political system.

Prerequisite: None

Corequisite: None

POLI315 Politics in Developing Nations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students will be introduced to the most prominent theories of political development and the major political, economic, and social issues common to developing nations.

Prerequisite: None

Corequisite: None

POLI320 Latin American Politics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Study of selected Latin American political systems in the 20th century, analyzing the impact of cultural and socio-political forces on modernization and political development. Through the study of several cases, students will develop an understanding of the historical roots of issues facing Latin America today.

Prerequisite: None

Corequisite: None

POLI322 International Political Economy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to international political economy, the study of the interaction of politics and economics in the international system. Includes discussion of how politically motivated policies and dynamics influence economic activity and how economic interests and calculations influence political events. Highlights the impact of international economic dynamics and institutions on domestic political, economic, and social conditions as well as the influence of domestic political structures and economic interests on the international system.

Prerequisite: None

Corequisite: None

POLI325 Labor-Management Relations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course will introduce students to the general field of labor-management relations. The focus will be on the issues which face workers and employers in the U.S. labor markets, especially those issues to be resolved through collectively bargained contracts between employees and management.

Prerequisite: None

Corequisite: None

POLI328 Social Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A thematic or topical approach, with emphasis on historical/political/economic analysis. Treatment of historical, contemporary and/or comparative topics (for example, the historical roots and contemporary practice of terrorism and its political and economic impact; the impact of imperialism --political, economic, and historical-- in different global areas; the frontier experience of Russian Siberia and the American West) within a framework provided by the instructor.

Prerequisite: None

Corequisite: None

POLI330 Public Policy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An upper-level course on the study of public policy. Includes an overview of the epistemological and methodological issues surrounding the study of public policy as they are viewed from different ideological perspectives. In addition the course provides an in-depth study of public policy related to poverty and welfare in the U.S.

Prerequisite: (POLI105)

Corequisite: None

POLI335 Politics of Global Health

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Explores the relationship between global health and social and economic development. Students will learn about key players in international health-UN agencies, Ministries of Health, and Non-governmental Organizations. Students will consider the impact that political action has on the health and well being of individuals. The course will be global in scope but with a special emphasis on health problems affecting people in the developing world.

Prerequisite: None

Corequisite: None

POLI350 International Relations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of current diplomatic, economic, and political problems as they affect the balance of power, disarmament, the East-West struggle, the United Nations and the emerging states of Africa and Asia.

Prerequisite: None

Corequisite: None

POLI370 United Nations & International Organizations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A rapid survey of the history of international organizations prior to the United Nations and an intensive study of the United Nations. Emphasis upon the purposes, principles, membership, structure, and functions of the U.N. Attention to other international organizations for such purposes as mutual security, disarmament, and the pacific settlement of international disputes.

Prerequisite: None

Corequisite: None

POLI380 Constitutional Law

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Analysis of the American constitutional system and its principles, with emphasis upon the Constitution, the Supreme Court, and judicial review. Constitutional principles, as applied by the Courts, to Congress, the President, federalism, state powers, and civil liberties.

Prerequisite: None

Corequisite: None

POLI381 Law and Society

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of American legal institutions and process. Common law, statutory law, administrative law, and constitutional law. The majority of the substantive materials in the course will be drawn from issues involving freedom of expression.

Prerequisite: None

Corequisite: None

POLI390 Political Theory 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The history of Western political thought from the Greeks through the 18th century. Theories pertaining to the nature of the state and the legitimate objectives of governments: authority, sovereignty, law, liberty, etc.

Prerequisite: None

Corequisite: None

POLI391 Political Theory 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This is an advanced elective course in political theory focusing on major issues in 20th century political philosophy. An understanding of the Western tradition of political theory developed in POLI390 will be used as the background for a survey of major ideologies and for an in-depth exploration of three philosophic issues: freedom, equality, and democracy.

Prerequisite: None

Corequisite: None

POLI400 Junior/Senior Research Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This is an advanced course in political science research. It provides the upper-level political science major with practice in the use of various research tools as part of a semester-long individual research project. The specific substantive focus of the course will vary, depending on the instructor.

Prerequisite: None

Corequisite: None

POLI405 Senior Capstone Management Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The seminar is intended to be an educational experience in which specialized skills and concepts introduced in individual courses in the major are integrated through investigation and discussion of broader issues in management.

Prerequisite: None

Corequisite: None

POLI600 Junior/Senior Research Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This is an advanced course in political science research. It provides the upper-level political science major with practice in the use of various research tools as part of a semester-long individual research project. The specific substantive focus of the course will vary, depending on the instructor.

Prerequisite: None

Corequisite: None

POLI628 Social Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A thematic or topical approach, with emphasis on historical/political/economic analysis. Treatment of historical, contemporary and/or comparative topics (for example, the historical roots and contemporary practice of terrorism and its political and economic impact; the impact of imperialism --political, economic, and historical-- in different global areas; the frontier experience of Russian Siberia and the American West) within a framework provided by the instructor.

Prerequisite: None

Corequisite: None

POLI630 Public Policy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An upper-level course on the study of public policy. Includes an overview of the epistemological and methodological issues surrounding the study of public policy as they are viewed from different ideological perspectives. In addition the course provides an in-depth study of public policy related to poverty and welfare in the U.S.

Prerequisite: None

Corequisite: None

POLI650 International Relations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of current diplomatic, economic, and political problems as they affect the balance of power, disarmament, the East-West struggle, the United Nations and the emerging states of Africa and Asia.

Prerequisite: None

Corequisite: None

POLI690 Political Theory

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The history of Western political thought from the Greeks through the 18th century. Theories pertaining to the nature of the state and the legitimate objectives of governments: authority, sovereignty, law, liberty, etc.

Prerequisite: None

Corequisite: None

PORT201 Portuguese 3

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The study of the foreign language in question, building upon the material learned in the Level 2 course and especially designed for students who wish to enhance their knowledge of that language.

Prerequisite: None

Corequisite: None

PSYC100 Intro to Psychological Science

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A comprehensive overview of what psychological science has discovered about human behavior and mental processes over the last century. Students will be introduced to many areas of academic and applied psychology as well as persistent themes that characterize the field (e.g., nature vs. nurture). The practical applications of psychological knowledge will be emphasized. Students will gain an understanding and appreciation of the psychological phenomena that occur in their daily lives. In addition, a habit of thinking clearly about the relationship between knowledge claims and evidence will be fostered. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PSYC102 Child Development

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the major developmental processes that occur in childhood between conception and the onset of adolescence, including both normal and problematic aspects of development. Fulfills psychology general education requirement but recommend non-education majors take PSYC100 to meet the general education requirement.

Prerequisite: None

Corequisite: None

PSYC103 Adolescent Development

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course examines the processes, products, and effects of changes experienced by adolescents as they develop from late childhood into early adulthood. The major topics will include: foundations, principles, and methods of research; theoretical positions and perspectives; biological processes and physical development; cognitive development and social cognition; information processing and intelligence; family processes and relationships with parents; sibs, peers, friends, and group relationships; schools and culture; the sense of self and identity; sex roles and sexuality; moral development, values and religion; achievement, careers, and work; and the problems and disturbances related to underachievement, drug and alcohol abuse, delinquency, pregnancy and parenthood, loneliness, eating disorders, depression, suicide, and psychopathology. Non-Education majors should take PSYC100 to satisfy their general education requirement. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

PSYC111 Psychology of Early Childhood

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An in-depth examination of the physical, cognitive, emotional, and social processes and products of development that typically occur from conception through middle childhood, including both normal and problematic aspects of development.

Prerequisite: None

Corequisite: None

PSYC201 Educational Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the aspects of psychology related to the learning process and to the school as a social system. Among the topics considered are learning theories and their applications, the identification and evaluation of abilities and achievements, the effects of social deprivation on intellectual development, characteristics of students and teachers, styles of teacher leadership, and instructional technology.

Prerequisite: (PSYC102) OR (PSYC103) OR (PSYC111)

Corequisite: None

PSYC202 Research Methods in Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to psychological methodology and theory through the use of exercises, small experiments, in-class discussion, and lecture. Experimental, quasi-experimental, and non-experimental methodological techniques of social science research are explored.

Prerequisite: (PSYC100) OR (HONR180)

Corequisite: None

PSYC204 Writing for Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course focuses on writing papers for psychology courses or professional journal articles. Students will develop information-seeking strategies, identify types of sources needed, and develop search strategies for locating psychology and related reference material utilizing traditional and electronic resources. Students will learn to summarize material and incorporate it into well written experimental and non-experimental papers that conform to APA style. Emphasis will also be given to basic writing elements, such as grammar, organization, and logical writing.

Prerequisite: (ENGL100 AND PSYC100) OR (ENGL100 AND HONR180) OR (HONR111 AND HONR180) OR (HONR111 AND PSYC100)

Corequisite: None

PSYC205 Applied Psychological Statistics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Teaches students how to utilize statistics in specific psychological settings in order to answer important theoretical and practical questions. Examples from inferential (parametric and nonparametric) statistics and correlational statistics will be presented and applied to real research problems. Difficult decisions such as what statistics to use, how to determine necessary sample size, and how to insure both random samples and representative treatments will be discussed.

Prerequisite: (MATH107 AND PSYC202)

Corequisite: None

PSYC212 Forensic Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the field of psychology and the law, also known as Forensic Psychology or Legal Psychology. Students will be introduced to the many ways that psychology influences the legal system.

Prerequisite: (PSYC100)

Corequisite: None

PSYC215 Brain & Behavior

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces students to the relationship between the activity of the brain and an organism's thoughts, experiences, and actions. Provides the necessary background in neuroanatomy, the mechanics of synapses, sensory neurophysiology, and other basic building blocks of the nervous system. Subsequently, the students will be shown the behavioral connection by stressing more applied topics like the biological bases of mental illness, language, sleep, and sexual behavior.

Prerequisite: (PSYC100)

Corequisite: None

PSYC235 Interpersonal & Leadership Skills

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the fundamental interpersonal skills of empathy, assertion, and negotiation and integrates these skills into the leadership skills of planning, organizing, leading, communicating, controlling, and assessing. Students read articles both on basic communication skills and the skills of leadership such as decision-making, team building, conflict management, and personal influence. They accomplish projects, which assess and develop their skills in each of these areas. Students receive feedback from their peers and the instructor on interpersonal and leadership skills.

Prerequisite: (PSYC***) OR (HONR180)

Corequisite: None

PSYC240 Life Span Development

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

This second level psychology course, a requirement for students in the nursing program, introduces the student to summary overviews of the major physical, intellectual, personality, and social developments unique to each stage of life from conception to death in old age. Patterns and rates of these age-related changes will be examined within a life-span perspective. The salient contributions of physical maturation and health, qualitative cognitive changes, and family and societal influences to the processes of individual development over the normal life span will be analyzed.

Prerequisite: (PSYC100) OR (HONR180)

Corequisite: None

PSYC250 Social Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the study of individual behavior in social situations. Course focuses on human interaction or how individuals affect and are affected by others. Topics such as interpersonal perception, attitudes, prejudice, aggression, altruism, attraction, group behavior, and social exchange are explored and discussed.

Prerequisite: (PSYC100) OR (HONR180)

Corequisite: None

PSYC300 Primatology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides an opportunity for students to study the primate order that consists of some 230 different living species that are divided into 13 families. Old world and new world monkeys are studied as well as prosimians and the greater and lesser apes. Their evolution, taxonomy, morphology, habitats, social organizations, behavior and cognition are described. Endangered species are identified and strategies to promote their survival are discussed.

Prerequisite: (BIOL101 AND PSYC100) OR (BIOL101 AND PSYC102) OR (BIOL101 AND SOCI101) OR (ANTH101 AND BIOL101) OR (BIOL106 AND PSYC100) OR (BIOL106 AND PSYC102) OR (BIOL106 AND SOCI101) OR (ANTH101 AND BIOL106)

Corequisite: None

PSYC305 Theories of Learning

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey approach to the topic of learning with emphasis placed upon the major theoretical orientations of the 20th century and how they have influenced education, psychotherapy and technology. Primary emphasis will be placed throughout the course on the influence of early behavioristic theories and cognitive theories upon approaches to education and therapy, and how later theorists have attempted to clarify, extend and eliminate contradictions in earlier theoretical formulations. Emphasis will also be placed upon the recent advent of mathematical and machine models of learning and how they have challenged traditional explanations. Finally, there will be an emphasis upon the use of learning theory in the design of psychoeducational techniques and technology.

Prerequisite: (PSYC100) OR (HONR180)

Corequisite: None

PSYC306 History & Systems of Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Orients the student to the historical antecedents of contemporary psychology. Attention will be given to contemporary trends in the U.S. and other countries.

Prerequisite: (PSYC100) OR (HONR180)

Corequisite: None

PSYC307 Abnormal Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The nature and extent of mental illness and its historical antecedents with special attention to relevant topics in community psychology. Examination of various approaches to mental abnormalities and an introduction to important research areas.

Prerequisite: (HONR180 AND PSYC1**) OR (PSYC1** AND PSYC100) OR (PSYC100 AND PSYC2**) OR (PSYC100 AND PSYC3**) OR (PSYC100 AND PSYC4**) OR (HONR180 AND PSYC2**) OR (HONR180 AND PSYC3**) OR (HONR189 AND PSYC4**)

Corequisite: None

PSYC308 Psychology of Personality

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The course provides the student with an in-depth study of the scientific study of personality. The theoretical models and research methods from a variety of points-of-view will be studied.

Prerequisite: (PSYC*** AND PSYC100) OR (HONR180 AND PSYC***)

Corequisite: None

PSYC310 Cognitive Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The data and theories in perception and human information processing will be covered. An emphasis will be placed on attention, memory and visual as well as auditory processing.

Prerequisite: (BIOL101 AND PSYC100 AND PSYC202) OR (BIOL106 AND PSYC100 AND PSYC202) OR (BIOL101 AND HONR180 AND PSYC202) OR (BIOL106 AND HONR180 AND PSYC202)

Corequisite: None

PSYC313 Industrial & Organizational Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A comprehensive study of the application of the methods, facts, and principles of the science of human behavior to people at work. Students will study the designing of organizations, which effectively integrate new technologies toward profitable and socially satisfactory ends.

Prerequisite: (HONR180) OR (PSYC100)

Corequisite: None

PSYC315 Health Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A survey course in the psychology of health and wellness. Findings using the bio-psycho-social model of health and disease are discussed. Topics such as the following are covered: preventive health; stress, coping, illness, and responses to treatment; pain management; behavioral aspects of chronic illnesses such as heart disease and cancer; psychoneuroimmunology; patient-provider communication; and positive psychology in health.

Prerequisite: (BIOL101 AND HLTH130 AND PSYC100) OR (BIOL101 AND PSYC100 AND PSYC215) OR (BIOL101 AND PSYC100 AND PSYC410) OR (BIOL106 AND HLTH130 AND PSYC100) OR (BIOL106 AND PSYC100 AND PSYC215) OR (BIOL106 AND PSYC100 AND PSYC410)

Corequisite: None

PSYC317 Sec Educ 2 Block: Educ Psycholog

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of knowledge about the learner, the learning process, and instructional planning, execution and assessment methodologies.

Prerequisite: None

Corequisite: None

PSYC322 Drugs & Human Behavior

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides information about the physiological and psychological effects of prescription, over the counter, and illegal drugs. Theories of addiction and methods of rehabilitation will be covered and the government agencies and laws, which regulate the manufacture and distribution of drugs, will also be considered. An emphasis will be placed on the narcotics, alcohol, stimulants, depressants and hallucinogenics.

Prerequisite: (BIOL101 AND PSYC100) OR (BIOL106 AND PSYC100) OR (HLTH251 AND PSYC100) OR (BIOL101 AND HONR180) OR (BIOL106 AND HONR180) OR (HLTH251 AND HONR180) OR (HLTH130 AND PSYC100) OR (HLTH130 AND HONR180)

Corequisite: None

PSYC328 Social Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

This seminar explores various topics in psychology. Specific topic selection is based on the expertise and interest of the faculty.

Prerequisite: None

Corequisite: None

PSYC400 Advanced Topics Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course explores in depth important contemporary topics in psychology (e.g., hypnosis and recovered memories; evolutionary psychology; animal communication and language) in a seminar environment. Active student involvement in literature reviews, presentations, and critical thinking about research design, theory, and data are emphasized. The instructor teaching the course determines three general topical areas to be covered.

Prerequisite: (PSYC100 AND PSYC202) OR (HONR180 AND PSYC202)

Corequisite: None

PSYC402 Sensation and Perception

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Explores sensation and perception as complementary processes that result in interpretations of the physical environment. The course will build upon prior knowledge of the biological basis of behavior and psychological research skills. It will focus on analyzing how information is gathered from the physical senses, converted into neural activity, and processed by the brain to create unique perceptions. Students will critically evaluate relevant theories, developing an advanced understanding of the role of sensation in perception.

Prerequisite: (PSYC100 AND PSYC202 AND PSYC215)

Corequisite: None

PSYC409 Applying Research Methods in Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides students with a practical experience in conducting psychological research. Students engage in the following activities: literature search, data collection and analysis, and manuscript preparation. Students complete at least one class research project and one small group or individually designed research project. Students write research reports in APA format, as well as create and present a poster of their final project.

Prerequisite: (PSYC202 AND PSYC205)

Corequisite: None

PSYC410 Physiological Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The physiological mechanisms responsible for sensory and motor processing and the control of motivation, learning, memory, and autonomic processes. An emphasis will be placed on the role of the central and peripheral nervous systems as well as the endocrine system in the regulation of these processes. Elementary neuroanatomy will be studied from a functional point of view with the assistance of preserved materials, and a brief introduction to pharmacology will be included.

Prerequisite: (BIOL101 AND PSYC100) OR (BIOL106 AND PSYC100) OR (BIOL101 AND HONR180) OR (BIOL106 AND HONR180)
Corequisite: None

PSYC412 Human Neuropsychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the field of Neuropsychology. The instructor will cover basic brain anatomy relevant to higher mental functions and will describe the methods used in Clinical Neuropsychological assessment. The course will cover language dysfunctions affecting speaking, comprehending, reading, and writing. It will also cover descriptions and assessment of computation, movement, and recognition deficits. Neglect, callosal, frontal lobe, amnesic, epileptic, emotional, and dementia syndromes will conclude the topics for the course. Students will learn through reading and discussing case histories of patients who have suffered brain damage. The students will be expected to design treatment and management plans for some of these patients.

Prerequisite: (PSYC215 AND PSYC307) OR (PSYC410)
Corequisite: None

PSYC421 Psychological Assessment

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

This course will introduce students to theory and application of assessment for the purposes of clinical diagnosis and treatment planning. Students will be exposed to assessments that are commonly used to evaluate intellectual functioning, interests, and normal and abnormal personality characteristics. This course does not train students to administer psychological assessments.

Prerequisite: (PSYC202 AND PSYC307 AND PSYC308)
Corequisite: None

PSYC425 Psychology of Women

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines the psychology of women in the following areas: The status of women from a historical and current perspective; developmental issues; achievement motivation; female sexuality; and psychological disorders prevalent in women.

Prerequisite: (PSYC*** AND PSYC100) OR (HONR180 AND PSYC***)
Corequisite: None

PSYC440 Adult Development and Aging

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on normal human development over the full span of the adult years, examining both stability and change in the physical, intellectual, emotional, and social dimensions of adult life. The major challenges, tasks, hazards, crises, achievements, and satisfactions typically experienced at each stage or era will be explored and discussed.

Prerequisite: (PSYC100) OR (PSYC102) OR (PSYC103) OR (PSYC240) OR (HONR180)
Corequisite: None

PSYC450 Psychotherapies

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Psychotherapies will examine several major psychotherapeutic processes, including psychoanalysis, client centered therapy, Gestalt therapy, Existential therapy, behavior modification, and biofeedback as used in psychotherapy. Class meetings will be devoted primarily to the demonstration of psychotherapeutic processes and students will be expected to participate in the demonstrations. This course is not designed to develop competence as a psychotherapist. The student will develop a sufficient understanding of psychotherapeutic processes to enable him/her to enter into post bachelor's training programs.

Prerequisite: (PSYC307 AND PSYC308)
Corequisite: None

PSYC470 Counseling Skills

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed for advanced psychology majors and other students who are interested in human service careers. The focus is on the development of counseling relationship, specific skills that foster change and growth in others, and ethical considerations in helping.

Prerequisite: (PSYC450)

Corequisite: None

PSYC612 Human Neuropsychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the field of Neuropsychology. The instructor will cover basic brain anatomy relevant to higher mental functions and will describe the methods used in Clinical Neuropsychological assessment. The course will cover language dysfunctions affecting speaking, comprehending, reading, and writing. It will also cover descriptions and assessment of computation, movement, and recognition deficits. Neglect, callosal, frontal lobe, amnesic, epileptic, emotional, and dementia syndromes will conclude the topics for the course. Students will learn through reading and discussing case histories of patients who have suffered brain damage. The students will be expected to design treatment and management plans for some of these patients.

Prerequisite: None

Corequisite: None

PSYC625 Psychology of Women

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Examines the psychology of women in the following areas: The status of women from a historical and current perspective; developmental issues; achievement motivation; female sexuality; and psychological disorders prevalent in women.

Prerequisite: None

Corequisite: None

PSYC628 Social Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This seminar explores various topics in psychology. Specific topic selection is based on the expertise and interest of the faculty.

Prerequisite: None

Corequisite: None

PSYC640 Adult Development and Aging

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on normal human development over the full span of the adult years, examining both stability and change in the physical, intellectual, emotional, and social dimensions of adult life. The major challenges, tasks, hazards, crises, achievements, and satisfactions typically experienced at each stage or era will be explored and discussed.

Prerequisite: None

Corequisite: None

PYAS300 Introduction to Physician Assistant Studies

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is designed as an introductory course for students contemplating a career as a physician assistant. The course will expose students to the history and development of the physician assistant profession, the role of the profession in American medicine, and skills required as a pre-requisite to entering the field. Particular emphasis will be placed on the role of physician assistants in caring for the needs of underserved populations. This course may be offered either face-to-face or via distance education.

Prerequisite: None

Corequisite: None

PYAS600 Service Learning Module

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It prepares the student to participate in program service learning projects that focus on the health care needs of rural communities. Content areas in this module include: introduction to community health and preventive medicine, community health needs assessment, community screening and health promotion/disease prevention programs, diagnostic procedures used in health screening programs, and alternative therapies. Each student will participate in designing, implementing, and assessing community-based service learning projects in designated communities within proximity to the university.

Prerequisite: None

Corequisite: None

PYAS601 Medical Decisions

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of the many influences in medical decisions made by providers, patients, communities and governments. Institutional and psychological constraints will be considered when looking at legal, ethical, moral and personal medical decisions. Medical decisions will also be viewed through various multicultural prisms. Throughout the course, we will examine the balance of pragmatism and compassion in the quickly changing medical arena.

Prerequisite: None

Corequisite: None

PYAS602 Introductory Module

[Minimum Semester Hours: 5 sh; Maximum Semester Hours: 5sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It introduces the student to fundamental concepts essential to understanding subsequent components of the curriculum. Content areas in this module include: fundamentals of medical research and reasoning, an overview of pathophysiology, introductory patient assessment including the medical history and physical examination, pharmacokinetics and pharmacodynamics, health promotion and disease prevention,, medical records, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS603 Gross Human Anatomy

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Gross anatomy is studied regionally stressing relationships of major structures, organs, vessels, and nerves. Human cadaver observation and dissection by students are included in the laboratory sessions. All major areas of the body are covered. References to the relationship of anatomical structures to pathology, traumatic injury and medicine are stressed.

Prerequisite: None

Corequisite: None

PYAS604 Women's Health Module

[Minimum Semester Hours: 1.5 sh; Maximum Semester Hours: 1.5 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis and treatment of specific diseases encountered in gynecology and women's health. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS605 Corrections Medicine

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to provide the PA student with an overview of health care systems in correctional facilities. The course will explore social, medical, health care policy, financial, ethical and other issues relevant to care of the incarcerated patient. It provides the student with the background and knowledge of the delivery of healthcare in the correctional facility setting.

Prerequisite: None

Corequisite: None

PYAS606 Urology and Sexually Transmitted Disease Module

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis and treatment of specific diseases encountered in urology, including sexually transmitted diseases. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, services learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS608 Human Sexuality Module

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. Personal attitudes toward sexual issues are explored in order to prepare the student to discuss issues of sexuality with patients. Other topics include human sexual response, sexual diversity, and the diagnosis and treatment of disorders of human sexual response.

Prerequisite: None

Corequisite: None

PYAS610 Infectious Disease Module

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis, and treatment of specific diseases encountered in infectious diseases. Content areas in this module include: medical research and reasoning, medical microbiology, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education,, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS612 Allergy and Immunology Module

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis and treatment of specific diseases encountered in allergy and immunology. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS614 Hematology Module

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis and treatment of specific diseases encountered in hematology. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS615 Underserved Populations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of factors, especially historical, racial, ethnic, socioeconomic, and geographic, determined to create disparities in healthcare access, delivery, and policy. The course will specifically encompass/consider barriers known to affect these disparities in rural and urban regions as well as various healthcare settings including correctional facilities.

Prerequisite: None

Corequisite: None

PYAS616 Oncology Module

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis and treatment of specific diseases encountered in oncology. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS618 Endocrinology Module

[Minimum Semester Hours: 1.5 sh; Maximum Semester Hours: 1.5 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis and treatment of specific diseases encountered in endocrinology. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS620 Cardiology Module

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis and treatment of specific diseases encountered in cardiology. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS622 Pulmonary Module

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis and treatment of specific diseases encountered in pulmonary medicine. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS624 Nephrology Module

[Minimum Semester Hours: 1.5 sh; Maximum Semester Hours: 1.5 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis and treatment of specific diseases encountered in nephrology. Content areas in this module include: medical research and reasoning, anatomy,

pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS626 Psychiatry Module

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis and treatment of specific diseases encountered in psychiatry. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedure, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS628 Ophthalmology Module

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis, and treatment of specific diseases encountered in ophthalmology. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS630 Neurology Module

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis, and treatment of specific diseases encountered in neurology. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS632 Orthopedics Module

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis, and treatment of specific diseases encountered in orthopedics. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS634 Rheumatology Module

[Minimum Semester Hours: 1.5 sh; Maximum Semester Hours: 1.5 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis, and treatment of specific diseases encountered in rheumatology. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS636 Dermatology Module

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis, and treatment of specific diseases encountered in dermatology. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS638 Gastroenterology Module

[Minimum Semester Hours: 1.5 sh; Maximum Semester Hours: 1.5 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis, and treatment of specific diseases encountered in gastroenterology. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS640 Obstetrics Module

[Minimum Semester Hours: 1.5 sh; Maximum Semester Hours: 1.5 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis, and treatment of specific diseases encountered in obstetrics. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS642 Otorhinolaryngology Module

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis, and treatment of specific diseases encountered in otorhinolaryngology. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS644 Pediatrics Module

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis, and treatment of specific diseases encountered in pediatrics. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS646 Geriatrics Module

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis, and treatment of specific diseases encountered in geriatrics. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS648 Surgery Module

[Minimum Semester Hours: 1.5 sh; Maximum Semester Hours: 1.5 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis, and treatment of specific diseases encountered in surgery. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS650 Emergency Medicine Module

[Minimum Semester Hours: 1.5 sh; Maximum Semester Hours: 1.5 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis and treatment of specific diseases encountered in emergency medicine. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS652 Alternative Medicine Module

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. This module provides the student with an orientation to alternative methods of health care, including such fields as acupuncture, chiropractic, massage, naturopathy, and culturally-based therapies. Content areas in this module include: medical research and reasoning, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS654 Occupational Medicine Module

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

This module is one of the series of modules that comprises the didactic curriculum of the program. It provides both a disease oriented and problem-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis and treatment of specific diseases encountered in occupational medicine, with special emphasis on those occupations that predominate in rural areas. Content areas in this module include: medical research and reasoning, epidemiology, anatomy, pathophysiology, patient assessment, diagnostic procedures, therapeutics, patient education, prevention, service learning, medical record keeping, and rural and professional issues.

Prerequisite: None

Corequisite: None

PYAS661 Evidence Based Medicine I

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

The first of three complimentary courses that will develop skills in Evidence Based Medicine (EBM). Students will build upon skills acquired during the first year of the program and apply EBM skills to authentic patient cases. Students will explore the limitations and the ethical implications of evidence based practice. The overall goal this course will be to extrapolate (EBM) use into their future practice as clinicians.

Prerequisite: None

Corequisite: None

PYAS662 Evidence Based Medicine II

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

The second of three complimentary courses that will develop skills in Evidence Based Medicine (EBM). Students will build upon skills acquired during the first year of the program EBM I. Students will apply EBM skills to authentic patient cases. Students will explore the limitations and the ethical implications of evidence based practice. The overall goal this course will be to extrapolate evidence based medicine use into their future practice as clinicians.

Prerequisite: (PYAS661)

Corequisite: None

PYAS663 Evidence Based Medicine III

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

The third of three complimentary courses that will build upon skills acquired during EBM I and II. Students will further develop skills using the concepts of variability, validity, sensitivity, specificity and probability of testing. Students will apply EBM to their daily clinical practice. This course culminates in the written and oral presentation of the EBM capstone project.

Prerequisite: (PYAS662)

Corequisite: None

PYAS664 Clinical Rotations I SH will change to 10.0 sh SU12

[Minimum Semester Hours: 11 sh; Maximum Semester Hours: 11 sh]

The first in a series of three rotations, 12 weeks in duration, designed to allow students to develop the knowledge, skills, abilities and attitudes required to care for patients of all age groups seen in primary care. Students will be assigned to a minimum of two clinical rotation sites in any of the following disciplines: surgery, internal medicine, pediatrics, OB/GYN, emergency medicine, or any subspecialty discipline that will develop skills required for generalist/primary care practice.

Prerequisite: None

Corequisite: None

PYAS665 Clinical Rotations II SH will change to 15.0 sh SU12

[Minimum Semester Hours: 17 sh; Maximum Semester Hours: 17 sh]

An eighteen-week clinical experience, the second in a series of three courses, that allows students to develop the knowledge, skills, abilities and attitudes required to care for patients of all age groups seen in primary care. Students will be assigned to a minimum of three clinical rotation sites in any of the following disciplines: surgery, internal medicine, pediatrics, OB/GYN, emergency medicine, or any subspecialty discipline that will develop skills required for generalist/primary care practice.

Prerequisite: (PYAS664)

Corequisite: None

PYAS666 Clinical Rotations III SH will change to 15.0 sh SU12

[Minimum Semester Hours: 17 sh; Maximum Semester Hours: 17 sh]

An eighteen-week clinical experience, the third in a series of three courses, that allows students to develop the knowledge, skills, abilities and attitudes required to care for patients of all age groups seen in primary care. Students will develop an understanding of the health promotion, disease prevention needs of communities and refine skills that develop problem-focused and disease-oriented approach diseases commonly seen in the primary care setting.

Prerequisite: (PYAS665)

Corequisite: None

PYAS670 Clinical Rotation: Corrections Medicine

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6sh]

This rotation is one of a series of rotations required by students enrolled in the LHUP Physician Assistant Program Corrections Concentration. The course will expose the student to medical and ethical issues inherent to providing healthcare services in correctional settings. During the six-week correction medicine rotation, the PA student will develop appreciation for the care of the incarcerated patient with particular emphasis being placed on the uniqueness of such care in the corrections setting.

Prerequisite: None

Corequisite: None

PYAS671 Clinical Rotation: Obstetrics and Gynecology

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

During this six-week clinical rotation, the student is assigned to a preceptor who practices obstetrics and gynecology/maternal and child health. The student will develop the knowledge, skills, abilities and attitudes required to care for obstetric and gynecologic patients in the office and hospital settings. Students will develop both a problem-oriented and disease-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis, and treatment of common obstetric and gynecologic problems seen in primary care.

Prerequisite: None

Corequisite: None

PYAS672 Clinical Rotation: General Surgery

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

This six-week clinical rotation is one of a series of five designed to develop a core base of medical knowledge for the Physician Assistant in Rural Primary Care student. Students will be assigned to a physician preceptor, who will act as both mentor and teacher, developing the surgical acumen required in primary care practice. Students will be required to develop a problem and disease oriented approach to the etiology, pathophysiology, manifestations, diagnosis and treatment of surgical disease commonly seen in the primary care setting.

Prerequisite: None

Corequisite: None

PYAS673 Clinical Rotation: Pediatrics

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

In this six-week clinical rotation, the student is assigned to a preceptor who practices pediatrics/maternal and child health. The student will develop the knowledge, skills, abilities and attitudes required to care for pediatric patients in office and hospital settings. The student will develop both a problem-oriented and disease-oriented approach to understanding the etiology, pathophysiology, manifestations, diagnosis, and treatment of common pediatric problems seen in primary care.

Prerequisite: None

Corequisite: None

PYAS674 Clinical Rotation: Internal Medicine

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

In this six-week clinical rotation, the student is assigned to an internist physician preceptor, who will serve both as mentor and clinical instructor. The student will develop the knowledge, skills, abilities and attitudes required to care for the adult and geriatric patient in rural primary care. Students will develop both a problem-oriented and disease-oriented approach to the etiology, pathophysiology, manifestations, diagnosis, and treatment of diseases commonly seen in the primary care setting.

Prerequisite: None

Corequisite: None

PYAS675 Clinical Rotation: Elective

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

This course is one in a series of five clinical rotations designed to develop a core base of medical knowledge for the Physician Assistant in Rural Primary Care student. Students will be assigned to a physician preceptor, who will serve as both mentor and teacher, developing the skills required to care for the patient in rural primary care. The elective rotation allows the student to develop skills in a primary care subspecialty outside the four core rotations that are requirements within the curriculum. Areas considered appropriate for elective rotations include, but are not limited to: emergency medicine, Geriatrics, Psychiatry, oncology, Otolaryngology, Orthopaedics, or any other area that is appropriate to rural primary care practice. Students will be required to develop an appreciation of epidemiology, etiology, clinical presentation, and management of diseases that commonly present in primary care that are shared with the primary care sub-specialist.

Prerequisite: None

Corequisite: None

PYAS676 Preceptorship in Rural Primary Care

[Minimum Semester Hours: 18 sh; Maximum Semester Hours: 18sh]

In this eighteen-week clinical preceptorship, the student is assigned to a primary care physician preceptor, who will serve both as mentor and clinical instructor. The student will develop the knowledge, skills, abilities and attitudes required to care for the pediatric, adult and geriatric patient in rural primary care. In addition to developing a problem-oriented and disease-oriented approach to the etiology, pathophysiology, manifestations, diagnosis, and treatment of diseases commonly seen in the primary care setting, the student will also develop an understanding of the health promotion, disease prevention needs of the community in which they are located.

Prerequisite: None

Corequisite: None

PYAS677 Clinical Rotation: Emergency Medicine

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

This rotation is one of a series of rotations required by students enrolled in the LHUP Physician Assistant Program. The course will expose the student to medical and ethical issues inherent to providing healthcare services in an emergency room setting. During the six-week rotation the PA student will develop appreciation for the care of the emergency department patient with particular emphasis being placed on the uniqueness of such care in the emergency setting.

Prerequisite: None

Corequisite: None

PYAS690 Summative Remediation Module

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This module represents a customized unit of study that will assist the student in meeting the requirements set forth in the Physician Assistant Program Summative Evaluation Process. The LHUP PA Program summative evaluation is designed to evaluate student's mastery of areas including cognitive, psychomotor and affective skills required for entry level clinical practice as a physician assistant. Enrollment is limited to students who, at the completion of the 24-month Physician Assistant Curriculum, have not met the standards set forth in summative evaluation or who desire to enhance their preparation for National Board Certification.

Prerequisite: None

Corequisite: None

READ203 Psychology of Reading

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the psychological basis of reading offers the student a better opportunity to extend the definition and understanding of reading as cognitive and affective processes. The student will demonstrate a basic knowledge of physiological and psychological bases for reading. Genetic development and the neurophysiology of conceptualization as the basis for self-direction, and the neurological factors relating to reading development, cognitive styles, sensory discrimination, sensory integration systems, language and thought patterns will be examined.

Prerequisite: (PSYC102) OR (PSYC103)

Corequisite: None

READ204 Primary Reading

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Emphasis will be placed upon the psychological, linguistic, and physical development of children and their language, and the relationship of reading to that development. Topics such as phonics, linguistics, basic sight and personal sight vocabularies, readability, and informal assessment of reading performance will be studied in detail through the use of appropriate modules.

Prerequisite: (PSYC102) OR (PSYC103) OR (PSYC111)

Corequisite: None

READ210 Literacy Corps: Practicum in Adult Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course will provide an understanding of the problem of adult illiteracy in the United States. Students will study adult literacy curricula and tutoring models that have been used effectively by adult basic education and literacy programs. Students will develop and implement tutoring plans with adult basic education students as part of a supervised practicum in the CIU Development Center for Adults or at other sites approved by the coordinator. Students will be required to keep detailed electronic journals of tutorial sessions and, upon completion of the course, will prepare and present clinical reports.

Prerequisite: None

Corequisite: None

READ300 Intermediate Level Reading

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Emphasis will be placed on how to meet the needs of intermediate level readers, grades 3 through 6. A distinction is made between learning to read, which typically occurs in the primary grades, and reading to learn and enjoy, which occurs thereafter. Building upon competencies developed in READ204, the prerequisite course in which learning to read is explored, students in the Intermediate Reading course will examine methods used to support reading to learn and enjoy by developing a comprehensive understanding of methods for scaffolding the development of metacognitive strategies that support reading comprehension across the curriculum. Students will examine the research that underlies a strategic reading program; discover how to organize the classroom for effective scheduling, student grouping, behavior management, and optimal reading structure; learn effective assessment techniques; discover methods and resources for matching readers and books; and develop an understanding of methods used to address the specific needs of struggling intermediate level readers.

Prerequisite: EDUC202 AND EDUC204 AND READ204

Corequisite: None

READ323 Diagnostic & Remedial Reading

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The major emphasis in this course will be upon the diagnosis of reading disabilities among school children of all ages. Since both individual and institutional factors may be involved in the failure of a child to reach his potential in reading, behavior from both factors as it is related to reading development will be studied. Reading disabilities to be studied range from the problems of non-reader to reluctant reader.

Prerequisite: READ204

Corequisite: None

READ410 Contemporary Issues in Reading Education & Literacy

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Helps students synthesize into a unified whole a concept of literacy and reading in the school and society. Additionally, efforts will be made to have students understand the international emphasis on the place in the world of English as the universal language. Students will undertake the study of new developments in school reading programs such as literature based reading instruction, whole language instruction and the holistic approaches. Students will also become acquainted with reading programs and methods on the international scene.

Prerequisite: None

Corequisite: None

READ443 Practicum Diagnosis & Remediation of Reading Difficulties

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Emphasizes the remediation of reading difficulties among children of all stages of reading development, based upon a diagnosis through formal testing, subjective observation and informal inventory procedures. A practicum course in which the student will undertake the correction of diagnosed problems and, based upon pre and post evaluations, will assess the results of his efforts at remediating a problem. Each student will prepare a complete report of his diagnostic and remedial procedures which contains an analysis of the results of their application.

Prerequisite: (READ323)

Corequisite: None

RECR105 Leisure, Wellness, and Personal Lifestyle

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to the philosophy, principles, and techniques of leisure education. This course addresses leisure in its historical and modern contexts as well as the relationships between leisure, work, health, and wellness at both the individual and societal levels.

Prerequisite: None

Corequisite: None

RECR110 Intro to Recreation & Leisure

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to give the student an awareness and understanding of recreation and leisure in the past, present, and future. The course includes an overview of basic techniques in leadership, program planning, and program organization. The student will have an opportunity to examine and evaluate the traits, competencies and preparation needed by the present and future recreational professional. Recreation majors only, others by permission of instructor.

Prerequisite: None

Corequisite: None

RECR119 First Year Seminar for Recreation Management Students

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

An introduction to the culture and mission of the university within the context of an academic discipline of choice. The class will explore the purpose of college education and be provided an opportunity to engage within an academic discipline. Students are introduced to basic learning and study skills within a content area. Through class readings, students engage in active learning. Co-curricular activities and the incorporation of a peer mentor component facilitate connections with fellow students and faculty. Restricted to first semester, first year students.

Prerequisite: None

Corequisite: None

RECR200 Principles of Personal Training and Aerobic Leadership

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Teach students the principles of physical conditioning in aerobic and anaerobic exercise programs. The students will learn personal training techniques, develop aerobic exercise leadership skills, and become aware of certification opportunities. The course emphasizes the application of exercise principles.

Prerequisite: (RECR244)

Corequisite: None

RECR202 Outdoor Recreation Activities

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to teach student the basic skills and principles of backpacking and orienteering, cross country skiing, canoeing and rock climbing. Emphasis will be placed on learning skills and techniques for safe participation in the wilderness, proper use of equipment, while causing minimal impact and practicing "Leave No Trace" principles to protect the resource. Restricted to Recreation Management majors with a declared outdoor option; others by permission of the instructor.

Prerequisite: None

Corequisite: None

RECR203 Teambuilding and Challenge Course Facilitation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Emphasizes the application of teambuilding through the use of adventure games, initiative problems (problem solving activities) and the newly constructed Lock Haven University high/low challenge course. Designed to teach students the principles of group processing and ropes course facilitation as it relates to the recreation industry. Students will experience a variety of adventure and experiential education activities; safety techniques related to these activities; and begin developing sound group processing and experiential facilitation techniques. This course is the initial step in training challenge course facilitators. Restricted to Recreation Management majors; other by permission of instructor.

Prerequisite: None

Corequisite: None

RECR204 Foundations of Therapeutic Recreation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to focus on a historical perspective of Therapeutic Recreation (TR) as well as critical philosophical and professional issues within the field. Additionally, the course includes a review of the current allied health fields, their role within the treatment approach and their philosophies. It is designed to meet the National Recreation and Park Association's (NRPA) competencies for accreditation. Restricted to Recreation Management/Therapeutic Recreation majors or with permission of instructor.

Prerequisite: None

Corequisite: None

RECR205 Nutrition for Wellness

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to explore basic knowledge of contemporary nutrition practices. While the course emphasizes the relationship of nutrition to overall good health and well being, it specifically targets students' personal eating habits and the consequences of healthy versus poor food choices. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

RECR207 Informational Media in Recreation

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2sh]

This course is an introduction to the use of informational technology in the planning, productions, and presentation of a variety of media materials necessary to promote recreation management. It is primarily hands-on, based on microcomputer technology, with added emphasis on traditional audio-visual presentation and equipment operations.

Prerequisite: None

Corequisite: None

RECR210 Field Participation in Recreation Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to explore career interests and develop professional skills. Students are placed in an approved agency under the combined supervision of a field professional and a university faculty member. The field experience provides an opportunity for students to apply their academic instruction in a professional setting within their career track.

Prerequisite: (RECR105 AND RECR110 AND RECR244) OR (RECR101 AND RECR110 AND RECR244)

Corequisite: None

RECR215 Travel and Tourism

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course examines the importance of tourism as an important factor in local, state, and national prosperity. It investigates the key components that are applicable to successful tourism management. Professional opportunities and the travel industry will be examined. this course also entails the study of tourism impacts, specifically analyzing social, environmental, and economic variables.

Prerequisite: (RECR110)

Corequisite: None

RECR244 Recreation Leadership & Supervision

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to give the student an understanding of recreation leadership, supervision, and team building in public, private, and government settings. Principles, philosophy, and methods of leadership and supervision will be covered. The goal is to provide practical, experiential educational opportunities to students. Restricted to Recreation majors only; others by permission of instructor.

Prerequisite: None

Corequisite: None

RECR275 Recreation Services for People with Disabilities

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to recreation services for people with disabilities. The course provides an overview of disabling conditions, attitudes toward people with disabilities, appropriate terminology, legislation that impacts disability services, and accessibility issues. Techniques for working with people with disabilities that include adaptation, evaluation procedures, needs assessment and modification will be addressed. It is designed to meet the National Recreation and Park Association (NRPA) competencies for accreditation. Restricted to recreation management majors or by permission of the instructor.

Prerequisite: None

Corequisite: None

RECR290 Special Topics in Recreation Management

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 3 sh]

A thematic topical approach to Recreation Management with an emphasis on experiential education, "learning by doing through direct experiences." Topics might include but are not limited to the following: international investigations of recreation management, external certifications related to the provision of recreation services, one-time offerings of specific recreation management courses, and field-based coursework. Restricted to recreation management major or permission of the instructor.

Prerequisite: None

Corequisite: None

RECR300 Special Event and Convention Center Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Explore special event and convention center management. Students will analyze the various components needed to manage special events with emphasis on conference planning. Topics will include stakeholder involvement, seasonality, theme-orientation, volunteerism, sponsorships, finance and budgeting as they relate to special events and convention center management.

Prerequisite: None

Corequisite: None

RECR301 Exercise Prescription

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The purpose of this course is to enable students to prescribe appropriate exercises based upon the client's tolerance for exercise. Special emphasis will be placed on risk factors, techniques for evaluation, physical conditions and their role in physical activity assessment and prescription.

Prerequisite: None

Corequisite: None

RECR302 Supervision of Strength Training Programs

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

In this course, students will learn how to apply strength training principles in the formulation of individual and team sports programs. Students will assist and supervise athletes during all training phases of a sports year (off-season, pre-season, in-season, and post-season).

Prerequisite: (HLTH128 AND HLTH129)

Corequisite: None

RECR303 Sports Nutrition

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The relationship between exercise, athletic performance, and nutritional status will be examined in this course. Emphasis will be placed on dietary requirements necessary for successful sport performance.

Prerequisite: (RECR205) OR (CHEM111) OR (HPED325)

Corequisite: None

RECR304 Finance and Acquisition of Recreation Resources

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is designed to introduce students to the various methods employed to acquire funds/resources for recreation agencies. The focus of the course content will analyze taxing positioning strategies, complimentary assets of private and public recreation agencies, intergovernmental cooperation, sponsorship proposals, and capital funding mechanisms. Also communicates effective grant writing techniques.

Prerequisite: (RECR110)

Corequisite: None

RECR305 Adv Activities & Outdoor Pursuit

[Minimum Semester Hours: 0.5 sh; Maximum Semester Hours: 0.5 sh]

Active participation in adventure-based activities provides the foundation for students to explore the application and benefits of such programs in recreation and school settings.

Prerequisite: None

Corequisite: None

RECR312 Teaching Conditioning Principles for Certification Testing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to teach students how to work with predominantly performance based populations and to give students supervised practical application of previously studied theory along with the opportunity to take accredited and nationally recognized certification exams. The certification exams consist of the following: (1) NSCA-CSCS, NSCA-CPT, (2) ACSM-Group Exercise Leader, Health/Fitness Instructor, Health/Fitness Director, Exercise Specialist, (3) AFAA-Step Certification, Personal Training/Fitness Counselor Certification, Advanced Personal Training Certification.

Prerequisite: (RECR200)

Corequisite: None

RECR315 Program Planning and Design in Recreation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Investigates the process of recreation programming, beginning with needs assessment and continuing through program evaluation phase. Students receive philosophical foundation to programming leisure experiences, including budgeting and a systematic approach to developing, coordinating, and conducting programs.

Prerequisite: None

Corequisite: None

RECR320 Interpreting the Environment

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course will survey the broad field of environmental interpretation as it is applied to various outdoor resource areas. Students will study the various interpretive methods that can be employed to establish a communication link between the visitor and the areas of natural and cultural resources. Students will have hands-on experience in a variety of interpretive situations.

Prerequisite: None

Corequisite: None

RECR325 Camp Counseling & Administration

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

For those students especially interested in becoming competent camp counselors. Stress on understanding children in the camp environment, camp programs, activities, campcraft, and woodcraft. Fundamentals of camp administration will provide foundation for those seeking carrier preparation in camping.

Prerequisite: (RECR244)

Corequisite: None

RECR330 Marketing Recreation Services

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to explore service marketing with the focus being the recreation industry. The course will look at the similarities and differences in marketing products and services as well as the other variables of promotion, price, product, place and providers.

Prerequisite: None

Corequisite: None

RECR340 Commercial Recreation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Exposes students to each of the four components of Commercial Recreation. Students will develop a working knowledge of the concepts of contractual law and government regulations as they impact on the free enterprise system. Students will utilize their basic understanding of financial documents and profit cost accounting techniques to analyze the financial stability of selected recreation businesses.

Prerequisite: None

Corequisite: None

RECR355 Outdoor Recreation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to analyze the present and future significance of outdoor recreation. Topics to be discussed include historical development, the role of agencies, professionalism, human and social values and functions, recreational opportunities and resources, and problems and issues in outdoor recreation.

Prerequisite: None

Corequisite: None

RECR356 Outdoor Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Outdoor Education is designed to provide students with the opportunity to develop skills to facilitate the environment as an extension of the classroom. The course will focus on the development and implementation of outdoor education programs for the public schools, parks, and other supporting agencies. A special emphasis will be placed on developing an awareness of the need to continue to acquire general knowledge of the environment while planning and conducting educational experiences in the outdoors.

Prerequisite: None

Corequisite: None

RECR357 Intramural Supervision

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The student will explore the function of intramural programs within the larger recreational sports programming field. Specifics will be presented on the administration and supervision of sports programs. Students will have the opportunity for hands-on experience with the intramural program of the University.

Prerequisite: None

Corequisite: None

RECR364 Therapeutic Recreation Assessment and Documentation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Explores the current assessment tools, treatment approaches and documentation utilized within clinical therapeutic recreation services.

Prerequisite: None

Corequisite: None

RECR365 Therapeutic Recreation Methods and Techniques

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An in-depth study of the facilitation techniques, modalities, and activities that a Therapeutic Recreation Specialist (TRS) will utilize when working with clients. A variety of settings and client groups will be discussed along with characteristics, contraindications, and protocols for utilizing Therapeutic Recreation (TR) services.

Prerequisite: None

Corequisite: None

RECR402 Leisure Education and Innovative Programming in Therapeutic Recreation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to cover current and innovative programming in Therapeutic Recreation (TR) with an emphasis on leisure education. Leisure education concepts and programs will be covered in depth. Students will create and implement a theoretically based leisure education program for a potential client group. Additional types of programs covered may include community-based TR programming, school-based TR programming, as well as a variety of unique and creative TR programs.

Prerequisite: (RECR204)

Corequisite: None

RECR405 Health Promotion at Worksite

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to address basic issues and problems in planning, implementing, and evaluating health promotion/wellness programs in a variety of work site settings. Emphasis will be placed on providing students with the knowledge and practical skills needed to perform the responsibilities of a work site health promotion professional.

Prerequisite: (RECR210 AND RECR301)

Corequisite: None

RECR410 Seminar in Current Issues in Recreation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of a variety of current issues in the areas of therapeutic recreation, outdoor recreation, exercise and performance, and community/commercial management. Students use a variety of texts, journals, interviews, electronic media, and newspapers to explore the selected topics. Limited to Recreation Management majors enrolled in Recreation Management Professional Semester.

Prerequisite: None

Corequisite: None

RECR415 Organization and Management of Recreation Agencies

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An investigation and analysis of management information from a variety of sources. The ultimate goal of this course is to have the student understand the complicated role of the manager in leisure service organizations with regard to three major categories: General Management, Human Resource Management, and Executive Development.

Prerequisite: None

Corequisite: None

RECR420 Recreational Resource Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An investigation of the multiple elements of recreation resource management. Topics will include indoor and outdoor management theories, principles of planning and design, maintenance and risk management, environmental awareness integration, and site protections and renovation. Additional areas may include landscape design and architectural components. Restricted to Recreation Management students who are enrolled in the Professional Semester.

Prerequisite: None

Corequisite: None

RECR425 Professional Field Experience in Recreation

[Minimum Semester Hours: 10 sh; Maximum Semester Hours: 12 sh]

Designed to facilitate the transition from the academic environment to the professional world. The student will interact with professionals in a variety of programs and settings within their respective areas of specialization.

Prerequisite: None

Corequisite: None

RECR430 Assessment, Evaluation and Research for Recreation Services Method and Design

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An explanation of the processes and methods of research and evaluation in recreation services. The course explores evaluation and research foundations, methods, design, and application. It is intended to serve as a foundation for students who need skills for program evaluation and to conduct research in the field. Restricted to recreation management majors participating in professional semester.

Prerequisite: None

Corequisite: None

RUSS101 Russian 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to the basics of the foreign language in question; the course is especially designed for students who wish to spend a semester at a university in a country where the language is spoken. The primary emphasis of the course will be on developing basic listening, reading and speaking skills in the language and increasing the students' awareness of the foreign culture.

Prerequisite: None

Corequisite: None

RUSS102 Russian 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of the foreign language in question, building on the material learned in the level I course. Especially designed for students who wish to improve their basic knowledge of the language in order to be able to study at the foreign university that supplied the instructor (completion of this course followed by a semester of study abroad at the university will satisfy the foreign language requirement).

Prerequisite: None

Corequisite: None

RUSS201 Russian 3

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of the foreign language in question, building upon the material learned in the Level 2 course and especially designed for students who wish to enhance their knowledge of that language.

Prerequisite: None

Corequisite: None

RUSS202 Russian 4

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study of the foreign language in question, building upon the material learned in the Level 1, 2 and 3 courses and especially designed for students who wish to enhance their knowledge of that language.

Prerequisite: None

Corequisite: None

RUSS328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Prerequisite: None

Corequisite: None

SCI110 Science, Technology, and Society

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces physical science concepts such as harmonic motion, thermal expansion, electrical generation, energy, radiation, and basic nanotechnology in the context of important historical, scientific and technological advances as well as their impact on society.

Prerequisite: None

Corequisite: None

SCI119 First Year Seminar

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

Introduces students to culture and mission of the university within the context of an academic discipline. They explore the purpose of a college education and participate in activities related to their academic field. College learning and study skills are introduced in the context of the content area. Common activities and the incorporation of a peer mentor component facilitate connection with fellow students and faculty.

Prerequisite: None

Corequisite: None

SCI201 Inquiry into Physical Science

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides a more adequate content background for teaching science in the elementary school. Emphasis is on individual student activity involving the handling of everyday equipment and supplies. Units cut across various fields of science including physics, chemistry, meteorology, and life science including fieldwork. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

SCI209 Secondary Science Methods 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The first course in a two-course science teaching and learning methods sequence for prospective teachers in all science disciplines. Includes field experiences and practice teaching and is organized around the following topics: nature of science, science learning, scientific inquiry, history of science education, national and state science standards, diverse learners, direct instruction, demonstrations, constructivism, classroom safety and the ethical treatment of animals, and professionalism.

Prerequisite: (PSYC103 AND SPEC204)

Corequisite: None

SCI315 Secondary Science Methods 2

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

The second course in a two-course science teaching and learning methods sequence for prospective science teachers. Includes numerous field experience, practice teaching and is organized around the problems of practice, with an emphasis on teaching science as inquiry, instructional strategies, curriculum planning, assessment, inquiry-empowering technologies, reading and writing across the curriculum, teaching students with special needs, and professionalism. Experiences with various methods and tools as learners will include content from physics including Electricity and Magnetism.

Prerequisite: None

Corequisite: None

SCI328 Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Prerequisite: None

Corequisite: None

SCI415 Student Teaching and Practicum Secondary 1: Science

[Minimum Semester Hours: 7 sh; Maximum Semester Hours: 7 sh]

Student teaching provides the capstone experience for preservice teachers. Two student teaching experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

SCI416 Student Teaching and Practicum Secondary 2: Science

[Minimum Semester Hours: 7 sh; Maximum Semester Hours: 7sh]

Student teaching provides the capstone experience for preservice teachers. Two student teaching experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

SCI493 Student Teaching and Practicum 1: Secondary Education Science

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

The capstone experience for preservice teachers through two student teaching experiences at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers and regular practicum sessions introduce the student to the range and scope of a professional educator's responsibilities.

Prerequisite: None

Corequisite: None

SCI494 Student Teaching and Practicum 2: Secondary Education Science

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

The capstone experience for preservice teachers through two student teaching experiences at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers and regular practicum sessions introduce the student to the range and scope of a professional educator's responsibilities.

Prerequisite: None

Corequisite: None

SCI601 Natural Selection and Evolution

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Provides content background which elementary and middle school teachers need to effectively teach the tenets of Darwinian natural selection and evolution. Other topics, including population genetics, sexual selection and altruism, molecular evolution, human origins, and extinction, will be presented using inquiry-based pedagogy and will stress the processes of science. Although topics such as creationism and intelligent design will be considered briefly, the focus of this offering will be evolution as manifest in biological systems. This course is founded upon both the National Science Education Standards and the Pennsylvania Science and Technology Standards.

Prerequisite: None

Corequisite: None

SCI602 Plant Adaptations and Survival

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Examines a variety of anatomical, morphological, life cycle, and physiological adaptations that contribute to growth, survival, and reproduction of plants. These adaptations allow plants to successfully survive in various environments and are a basis for biodiversity. The course is founded upon the National Science Education Standards, Pennsylvania Science and Technology Standards and the Pennsylvania Ecology and Environmental Standards and provides content knowledge which is pertinent to elementary and middle school classroom instruction.

Prerequisite: None

Corequisite: None

SCI603 Genetic Concepts

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Reviews basic concepts in Mendelian (transmission), molecular, and evolutionary genetics through hands-on activities, projects, and discussions. This course is based on the National Science Education Standards and the Pennsylvania Science and Technology Standards, and provides content knowledge pertinent to elementary and middle school classroom instruction.

Prerequisite: None

Corequisite: None

SCI604 Wetlands Ecology

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

Provides content background which elementary and middle school teachers need to effectively teach concepts related to wetland habits, species and ecology. Wetland structure and function will be presented using inquiry-based pedagogy. This course is founded upon both the National Science Education Standards, the Pennsylvania Science and Technology Standards and the Ecology and Environmental Standards and provides content knowledge which is pertinent to elementary and middle school classroom instruction.

Prerequisite: None

Corequisite: None

SCI640 Water Resources

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Provides advanced content background that elementary and middle school teachers need to teach effectively the principles of water resources. This course is founded upon the National Science Education Standards, Pennsylvania Science and Technology Standards, and Pennsylvania Ecology and Environment Standards.

Prerequisite: None

Corequisite: None

SCI660 Simple Machines

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Provides content background that elementary and middle school teachers need to effectively teach the tenets of simple machines based on the Standards. Topics addressed in this course (levers, wheel and axles, pulleys, inclined planes, screws, and wedges) are presented using inquiry-based pedagogy and stress the processes of science. This course is founded upon the National Science Education Standards and Pennsylvania Science and Technology Standards.

Prerequisite: None

Corequisite: None

SOCI101 Introduction to Sociology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Emphasizes the concepts and methodology by which the sociologist investigates the relationship between groups, institutions, cultures and the individual. Race, gender, class, religion and other forms of difference receive special treatment as mediating variables in this relationship.

Prerequisite: None

Corequisite: None

SOCI203 Social Problems

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of a variety of contemporary social problems such as alcoholism, drug abuse, crime, delinquency, mental disorders, poverty, minority discrimination, and family disorganization.

Prerequisite: (SOCI101)

Corequisite: None

SOCI205 Racial & Ethnic Relations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An analysis is made of the processes involved when people of different racial, ethnic, and sociocultural origins meet and co-exist. While primary emphasis is given to racial and ethnic relations in the United States, the worldwide phenomena of prejudice and discrimination are also considered.

Prerequisite: (SOCI101)

Corequisite: None

SOCI206 Marriage & Family

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An historical and analytical study of the patterns of behavior within courtship, marriage, and the family, with special attention to sociological research relating to problem areas in the family life cycle.

Prerequisite: (SOCI101) OR (ANTH101) OR (ANTH102)

Corequisite: None

SOCI300 Sociology of Deviance

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of behavior that is not normal. Part of the course focuses on the forces from a mainstream society itself that compel deviant behavior. Other parts are on interaction processes between deviant actors and mainstream society, the formation of subcultures and countercultures, and the evolution of social rules and crime. The course emphasizes attention to gender and racial social structures.

Prerequisite: (SOCI101)

Corequisite: None

SOCI301 Juvenile Delinquency

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An analysis of the nature of juvenile delinquency, theories of causation, methods of treatment, and suggested methods of prevention.

Prerequisite: (SOCI101)

Corequisite: None

SOCI302 Criminology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An analysis of the nature of criminal behavior, theories of causation, its relation to social institutions, and the systems of prosecution and rehabilitation of the criminal.

Prerequisite: (SOCI101)

Corequisite: None

SOCI328 Social Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Social science seminar.

Prerequisite: (SOCI101)

Corequisite: None

SOCI330 Japanese Culture and Society

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course will use sociological and anthropological perspectives to understand Japanese culture and society. The course will highlight various social institutions and cultural elements of the Japanese society, namely education, religion, popular culture, group dynamics, marriage and the family, and economy. Through the multidisciplinary approach, the course will investigate both historical as well as contemporary issues concerning Japan.

Prerequisite: (SOCI101) OR (ANTH101) OR (ANTH102)

Corequisite: None

SOCI351 Urban-Rural Patterns

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Analyzes the process of urbanization upon people individually and collectively. Considers the pervasive impact of the urbanization process upon communities of all sizes, no matter how small or isolated. Consideration will be given to some topics most often described as major urban problems: poverty, poor or inadequate housing, crime and violence, and urban finances. A review what has been done to combat each problem and focus on the hypothesis that these problems are a consequence of the way in which we view the world and do business.

Prerequisite: (SOCI101)

Corequisite: None

SOCI352 Sociological Theory

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of the evolution of social thought leading to the systematic and scientific basis of modern sociology and systematic analysis of major schools of modern sociological theory.

Prerequisite: (SOCI101)

Corequisite: None

SOCI354 Social Change

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An inquiry into the nature of social change--its causes, processes, and consequences--and a critical examination of theories of social change and their applications to the comparative analysis of Western and Asian societies.

Prerequisite: (SOCI101)

Corequisite: None

SOCI360 Death & Dying

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of the various ways societies have sought to understand and cope with death. Consideration is given to the way individuals, families, and societies have formulated policy and administrative procedures to make institutions more humane in their response to the terminally ill and the bereaved.

Prerequisite: (SOCI101) OR (PSYC100) OR (HONR180)

Corequisite: None

SOCI402 Industrial Sociology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An analysis of our highly industrialized and urbanized society with emphasis on the role of industry in influencing our American way of life, individually and collectively, and the nature of social change deriving from that industrialization and its concomitant urbanization.

Prerequisite: (SOCI101) OR (PSYC100) OR (HONR180)

Corequisite: None

SOCI403 Social Gerontology: Sociology of Aging

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A sociological analysis of the problems confronting the aged in modern bureaucratic society. Emphasis is placed on the influence that various structures--groups, associations, and institutions have on the changing statuses and roles of individuals in society.

Prerequisite: (SOCI101)

Corequisite: None

SOCI404 Sociological Research

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An exploration of basic research design and statistical inference, and the application of basic statistical techniques as utilized on sociological research.

Prerequisite: (MATH107 AND SOCI101 AND SOCI352)

Corequisite: None

SOCI410 Sociology of Organizations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of informal and formal organizations in the contexts of work, voluntary agencies, and the military. This course investigates the creation, evolving structures, and evolving functions of such organizations and their consequences on race, social class, and gender.

Prerequisite: (SOCI101)

Corequisite: None

SOCI420 Corrections

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course will explore the relationship of criminology to criminal justice from systems and interdisciplinary approaches. Major emphases are placed on investigating philosophies and issues in corrections such as retribution, restitution, general and specific deterrence, incapacitation, rehabilitation, or treatment. Correctional strategies are also examined by evaluating traditional and nontraditional adult and juvenile corrections.

Prerequisite: (SOCI101)

Corequisite: None

SOCI430 Capstone Seminar in the Administration of Criminal Justice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This seminar is designed to provide a comprehensive overview of sociology in relation to criminology and criminal justice systems. Major emphases include integrating sociological theory, research and the application of findings to understanding the inter-relatedness of police, courts and correctional systems, as well as policy decisions and their impacts. Efforts are made to synthesize contemporary and past dimensions of criminal justice systems with sociology providing the foundation of interdisciplinary perspectives useful in evaluating various strategies and programs within each system.

Prerequisite: None

Corequisite: None

SOCI602 Industrial Sociology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An analysis of our highly industrialized and urbanized society, with emphasis upon the role of industry in influencing our American way of life, individually and collectively, and the nature of social change deriving from that industrialization and its concomitant urbanization. Additional course work is required for graduate level.

Prerequisite: None

Corequisite: None

SOCI604 Sociological Research

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An exploration of basic research design and statistical inference, and the application of basic statistical techniques as utilized on sociological research.

Prerequisite: None

Corequisite: None

SOCI628 Social Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Graduate social science seminar.

Prerequisite: None

Corequisite: None

SOCI630 Japanese Culture and Society

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course will use sociological and anthropological perspectives to understand Japanese culture and society. The course will highlight various social institutions and cultural elements of the Japanese society, namely education, religion, popular culture, group dynamics, marriage and the family, and economy. Through the multidisciplinary approach, the course will investigate both historical as well as contemporary issues concerning Japan.

Prerequisite: None

Corequisite: None

SOCI654 Social Change

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An inquiry into the nature of social change--its causes, processes, and consequences--and a critical examination of theories of social change and their applications to the comparative analysis of Western and Asian societies.

Prerequisite: None

Corequisite: None

SOCW102 Introduction to Social Work

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduction to social work values, ethics, knowledge, functions, and roles necessary for practice by generalist practitioners. Provides a foundation in the historical roots and theoretical underpinnings of the social work profession. The social welfare system and social environment in which individuals, families, groups, organizations, neighborhoods, and communities participate are studied from a systems perspective. Special emphasis on empowering marginalized and oppressed populations.

Prerequisite: None

Corequisite: None

SOCW110 Diverse Populations and Groups

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces students to diverse populations and groups and provides information about differences based on age, disability, social class, culture, color, race, political ideology, gender, ethnicity, religion, sexual orientation, and immigration status. Helps students develop tools for increased understanding of and sensitivity to human diversity and cultures different from their own. The interrelationship among social, economic, and political institutions will be explored.

Prerequisite: None

Corequisite: None

SOCW201 Human Behavior in the Social Environment 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Introduces the normal processes of sequential physical, emotional, socio-cultural and spiritual development from conception through young adulthood. Emphasizes common stresses and crises effecting normal development and relates these to social work

practice. It utilizes a social systems framework and strengths perspective in applying knowledge of different human contexts to better understand the basis of concerns related to living in our society.

Prerequisite: (SOCW102) OR (SOCW110)

Corequisite: None

SOCW203 Human Behavior & Social Environment 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Introduces the normal processes of sequential physical, emotional, and socio-cultural development from middle adulthood through old age. Emphasizes common stresses and crises affecting normal development and maturity and relates these to social work practice. Utilizes a social systems framework to focus on why humans behave the way they do in the context of living in our society.

Prerequisite: None

Corequisite: None

SOCW301 Social Work Practice 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

First of three practice sequence courses, is designed to introduce knowledge, values and skills for generalist micro practice. Emphasizes self-knowledge, use of self as a change agent, understanding social work values, oppression and strategies for combating it, and developing skills for problem-solving, good interpersonal interviewing, and beginning-level research. Students will understand the interdependence of policy, research and practice, and the need to empower clients and themselves to advocate for social and economics justice.

Prerequisite: (SOCW102 AND SOCW201)

Corequisite: None

SOCW302 Social Work Practice 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The second in a sequence of three required social work practice courses, this course will utilize a variety of active learning techniques to help students: integrate social work values and ethics with practice; build critical understanding for effective practice; practice generalist social work, and work with families and groups in social work practice.

Prerequisite: (SOCW301)

Corequisite: None

SOCW310 Social Policy and Practice

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course involves an exploration of the development of social welfare programs. It includes content about the history of social work, the history and current structure of social welfare services and the role of policy in service delivery, social work practice, and the attainment of individual and social well being. Students will understand and demonstrate social policy skills in regard to economic, political, and organizational system.

Prerequisite: (SOCW204 AND SOCW404)

Corequisite: None

SOCW328 Social Science Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Prerequisite: None

Corequisite: None

SOCW360 Death & Dying

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Explores the various ways societies have sought to understand and cope with death. Consideration is given to the way individuals, families, and societies have formulated policy and administrative procedures to make institutions more humane in their response to the terminally ill and bereaved.

Prerequisite: (PSYC100 AND SOC1101)

Corequisite: None

SOCW401 Field Instruction & Professional Seminar 1

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6sh]

Students are placed in a community agency under the supervision of an experienced social worker and a social work faculty member. Students are expected to develop an in-depth understanding of agency activities, programs, and services, and will assume increasing levels of responsibility as beginning level generalist social workers. Attendance at weekly seminars is required. The integration/generalization of conceptual content and problem specific knowledge in the field practice experience is a cycle of inquiry from specific practice experiences to concept/theory and back again in a series of cycles.

Prerequisite: (SOCW102 AND SOCW201 AND SOCW203 AND SOCW204 AND SOCW301 AND SOCW302 AND SOCW404 AND SOCW412)

Corequisite: None

SOCW402 Field Instruction & Professional Seminar 2

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

Students are placed in a community agency under the supervision of an experienced social worker and a social work faculty member. Students are expected to develop an in-depth understanding of agency activities, programs, and services, and will assume increasing levels of responsibility as beginning level generalist social workers. Attendance at weekly seminars is required. The integration/generalization of conceptual content and problem specific knowledge in the field practice experience is a cycle of inquiry from specific practice experiences to concept/theory and back again in a series of cycles.

Prerequisite: (SOCW102 AND SOCW201 AND SOCW203 AND SOCW204 AND SOCW301 AND SOCW302 AND SOCW404 AND SOCW412)

Corequisite: None

SOCW403 Social Gerontology: Sociology of Aging

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides a knowledge base for understanding the problems the aged face when growing old in a modern bureaucratic society. Emphasis is placed on the influence various structures--groups, associations, and institutions--have on the changing status's and roles of individuals in society.

Prerequisite: None

Corequisite: None

SOCW404 Rural Social Work

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is designed to further develop and fine tune generalist social work skills at all levels of intervention (including individuals, families, organizations and communities). Course content will focus on rural practice and the types of situations that students will encounter in micro practice, understanding and working with families, and working in and with organizations and communities. Advocacy, striving for social and economic justice, and macro level change will be stressed.

Prerequisite: (SOCW102 AND SOCW201 AND SOCW203 AND SOCW301 AND SOCW302 AND SOCW412)

Corequisite: None

SOCW411 Social Work with Diverse Populations & Groups

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Utilizing a problem-solving approach within an ecological systems framework, this course examines social service delivery with selected client populations and focuses on some of the newer intervention strategies that are available through a variety of agency settings and social service programs. Case Management in social work practice will be a focal concern.

Prerequisite: (SOCW102 AND SOCW201 AND SOCW203 AND SOCW301)

Corequisite: None

SOCW412 Applied Social Research

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Provides a basic overview of research methodologies used in social work. It examines quantitative and qualitative research methodologies; research questions; theoretical bases; collection and analyses of data, evaluation of data; findings of research reports; and systematic evaluation of practice. Knowledge of research is applied through participation in a developing and conducting a research project.

Prerequisite: (MATH107 AND SOCW301 AND SOCW302)

Corequisite: None

SOCW415 Child Welfare Services

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Designed to explore contemporary child welfare issues utilizing the systems and ecological perspectives, integrated with a problem-solving approach. Allows students to understand major concepts and issues related to children and their families at the micro, mezzo, and macro levels of service delivery and establishes a skill-base for promoting change and addressing oppression of children and families.

Prerequisite: (SOCW102 AND SOCW201 AND SOCW301)

Corequisite: None

SOCW420 Field Placement Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The senior seminar, which accompanies field instruction, is designed to serve as a capstone course, and an integrating methods seminar.

Prerequisite: (SOCW102 AND SOCW201 AND SOCW203 AND SOCW204 AND SOCW301 AND SOCW302 AND SOCW404 AND SOCW412)

Corequisite: None

SOCW425 Social Policy and Services

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Explores the development of social welfare systems, policies, and programs in historical, societal and organizational contexts. The role of social policy in helping or deterring individuals in attaining their fullest potentials and the effects on social work practice are examined. Emphasizes the analysis of political and organizational processes that influence policy; the policy formulation process; and the relationship between policies and social work goals and purposes.

Prerequisite: SOCW301 AND SOCW302 AND SOCW412

Corequisite: None

SOCW450 Topics in Social Work

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Addresses contemporary issues of social work practice in depth. Examines the impact of policy, research, and practice as well as the roles and responsibilities of social workers in this area.

Prerequisite: (SOCW*** AND SOCW102) OR (SOCW*** AND SOCW110)

Corequisite: None

SOCW613 Women in Crisis

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Explores women's changing roles, and crises due to these changes, and their implications for Social Work and human service practitioners. Emphasizing the social worker's responsibilities for advocacy and the responsibilities of a change agent, this course focuses on the social worker's accelerated roles and tasks associated with the situation.

Prerequisite: None

Corequisite: None

SPAN101 Spanish 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to Spanish speech sounds, their discrimination, production and transcription, the vocabulary in context and basic speech patterns, and development of essential grammatical concepts. Conversation and readings.

Prerequisite: None

Corequisite: None

SPAN102 Spanish 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to Spanish speech sounds, their discrimination, production and transcription, the vocabulary in context and basic speech patterns, and development of essential grammatical concepts. Conversation and readings.

Prerequisite: None

Corequisite: None

SPAN201 Spanish 3

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A review of fundamental facts and skills, followed by progressively more extensive and complex exercises in listening, speaking, and reading. Emphasis the second semester is on the retention and application of Spanish idiom in written composition from paragraph to theme. Prepares the student for mature reading and discussion in Spanish and for the pursuit of advanced courses.

Prerequisite: None

Corequisite: None

SPAN202 Spanish 4

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A review of fundamental facts and skills, followed by progressively more extensive and complex exercises in listening, speaking, and reading. Emphasis the second semester is on the retention and application of Spanish idiom in written composition from paragraph to theme. Prepares the student for mature reading and discussion in Spanish and for the pursuit of advanced courses.

Prerequisite: None

Corequisite: None

SPAN203 Culture of Spain

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Covers the evolution of Spanish culture in all of its diverse facets. Readings, recordings, videos and material from the internet are used to analyze Spain and her people in the past and present. Written and oral reports, lectures and discussions in Spanish.

Prerequisite: None

Corequisite: None

SPAN204 Latin American Culture

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The course is designed to give the student an introduction to Latin America. The material treated includes Latin American politics, history, race, languages, customs, geography, great men and women, economy, arts, music, and psychology. Of necessity, depth is sacrificed for breadth.

Prerequisite: None

Corequisite: None

SPAN205 Beginning Spanish Composition & Conversation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to improve and develop written and oral expression in Spanish. Some attention will be paid to correctional phonetics. This course is conducted in Spanish.

Prerequisite: None

Corequisite: None

SPAN215 Presentations from Hispanic Theatre

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

The presentation of one-act contemporary Hispanic plays or of scenes from longer works of dramatic literature. Pronunciation exercises, play analysis, written exercises, and an introduction to basic techniques for the presentation of dramatic material will all serve to enable the student to deliver assigned lines in a natural and convincing manner.

Prerequisite: None

Corequisite: None

SPAN300 Advanced Conversation through Hispanic Film

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Written and oral analyses of a number of outstanding Hispanic films serve to develop further students' ability to communicate in Spanish.

Prerequisite: None

Corequisite: None

SPAN307 Intro Spanish Literature

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of the different literary genres as represented by selected works of outstanding Spanish authors. Introduces the student to the basic techniques of literary analysis and to the principal themes and unique characteristics of the literature produced in Spain. Motivates and prepares students for more specialized independent reading and investigation.

Prerequisite: None

Corequisite: None

SPAN308 Intro Spanish American Literatur

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Selected readings in prose fiction, drama, and poetry from all periods. Emphasis is placed on the fundamentals of literary theory as reflected in the works read. This course is conducted in Spanish.

Prerequisite: None

Corequisite: None

SPAN312 Advanced Spanish

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An intensive study of Spanish, providing review of basic grammar as well as examining more advanced topics not treated in Spanish I-IV. Emphasis on problem areas of the language through a variety of exercises and applications of grammar principles.

Prerequisite: None

Corequisite: None

SPAN313 Intermediate Spanish Composition and Conversation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to develop in the student a facility in the use and comprehension of oral Spanish, as well as in reading and written expression. This course is conducted in Spanish.

Prerequisite: None

Corequisite: None

SPAN314 Spanish Phonetics & Linguistics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Introduction to general linguistic concepts. Comparison of Spanish and English speech production and language patterns. Application of linguistics to the teaching of Spanish.

Prerequisite: None

Corequisite: None

SPAN318 Spanish Drama 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the major works of the Spanish theater from the second half of the 19th century until the present time. Trends in the evolution of modern drama will be identified and analyzed and the nature of a dramatic work in performance will be considered.

Prerequisite: None

Corequisite: None

SPAN320 Contemporary Spanish Women's Fiction

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Focuses on the Spanish narrative written by outstanding female authors from the Spanish Civil War to the present. The novels and short stories to be studied in class are examples of a new female identity and subjectivity and of women's struggle for individuality.

Prerequisite: None

Corequisite: None

SPAN322 Spanish American Regionalist Novel & the Short Story

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Application of literary concepts to selected readings in the novel and short story "of the land" from the 19th and early 20th centuries. Typical works treat the native and the common man. This course is conducted in Spanish.

Prerequisite: None

Corequisite: None

SPAN323 Spanish American Contemporary Novel and the Short Story

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Application of literary concepts to selected readings of the Spanish American novel and short story of the contemporary period including such authors as Borges, Carpentier, Fuentes, Garcia Marquez. This course is conducted in Spanish.

Prerequisite: None

Corequisite: None

SPAN328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of major films produced in Spain, with emphasis on the three leading directors: Luis Buñuel, Carlos Saura and Pedro Almodóvar. (All films are subtitled; no knowledge of Spanish is necessary for the seminar.) Basic concepts of film criticism will be applied to analyses of films and social history and aesthetic movements will be considered where necessary to an understanding of specific films.

Prerequisite: None

Corequisite: None

SPAN618 Spanish Drama 2

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A study of the major works of the Spanish theater from the second half of the 19th century until the present time. Trends in the evolution of modern drama will be identified and analyzed and the nature of a dramatic work in performance will be considered.

Prerequisite: None

Corequisite: None

SPEC101 Multicultural Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course will examine diversity among people. By exploring contributors of diversity such as religion, gender, sexual preferences, socioeconomic class, race, ethnicity, and disabilities, students will gain an understanding of the need for a multicultural approach to

education. Several different multicultural education approaches will be explored with emphasis on implications to special education programs. This course sets the tone of the “people first” philosophy as used in SPEC 105.

Prerequisite: None

Corequisite: None

SPEC105 Foundations of Special Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Addresses the definitions, characteristics, etiologies, educational and transitional needs of, interventions and strategies for diverse learners and individuals with exceptional learning needs (ELN) through a life span approach.

Prerequisite: None

Corequisite: None

SPEC119 First Year Seminar for Special Education Students

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to embed education program requirements into a required course and to support student achievement of Education program requirements. Must be taken by all Special Education majors either fall or spring semester.

Prerequisite: None

Corequisite: None

SPEC202 Cultural and Linguistic Diversity in Education

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to multicultural and global education as a concept. Students will examine personal awareness and attitudes, cultural knowledge, instructional strategies, and curricular resources impacting PreK-12. Consideration will be given to the instructional needs of English Language Learners (ELL) and effective teaching/learning theories, approaches, research results, and public policies that pertain to diverse learners.

Prerequisite: None

Corequisite: None

SPEC204 Cognitive Development of Diverse Learners

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to address the definitions, characteristics, and educational, social, and emotional needs of diverse learners. Emphasis will be given to the legal rights and responsibilities inherent in the field of special education. Assessment procedures for eligibility, program design and performance monitoring will also be addressed.

Prerequisite: (PSYC102) OR (PSYC103) OR (PSYC111)

Corequisite: None

SPEC212 Low Incidence Disabilities Support

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Examines the conceptual base, educational programming and curricular options for persons with moderate to severe disabilities. The relationship of sensori-motor development between classroom environments and adaptations will be examined in depth. Attention will be given to assessment, determination of goals, person-centered planning and the family-system approach.

Prerequisite: (SPEC105) OR (SPEC204)

Corequisite: None

SPEC215 High Incidence Disabilities Support

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A comprehensive examination of individuals with mild disabilities (high incidence) and the accommodations/adaptations necessary for their success. Specifically addresses parameters of mild disabilities, theories of learning, learning styles, educational accommodations, instructional strategies, organizations that serve this population.

Prerequisite: (SPEC105) OR (SPEC204)

Corequisite: None

SPEC300 Communication Disorders and Assistive Technology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Reviews communication needs for individuals with disabilities. Language development, assistive technology and alternative communication systems will be explored. The scope of this course is intended to enable students to become familiar with assessment and intervention strategies for students with communication disorders.

Prerequisite: SPEC105 SPEC204

Corequisite: None

SPEC309 Instructional Strategies for Students with Disabilities in Inclusive Settings

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Addresses the needs of pre-service teachers who share the responsibility of providing effective instruction to students with disabilities. Emphasis will be given to utilizing evidence based instructional practices for students with varying disabilities, creating a positive inclusive learning environment, collaborating and communicating with other school personnel and parents, and implementing positive behavioral interventions.

Prerequisite: SPEC204 SPEC105

Corequisite: None

SPEC310 Manual Communication & Signing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An elective designed to study the basic sign language vocabulary, finger spelling techniques, and non-manual markers used in manual communication. Emphasis is placed on developing proper receptive and expressive skills required for an effective communicative process to occur. Topics to be discussed are a brief history of sign language, cultural principles, sign and manual alphabet formation, proper positioning, and sign systems. Provides opportunities for practical experiences and practice of dialogue and technique.

Prerequisite: None

Corequisite: None

SPEC325 Infant/Preschool Special Needs

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Deals with the development and education of young exceptional children, with an emphasis on ages birth through five years. Focuses on issues of etiology, consequences of developmental delay, early identification, assessment and educational programming designed to promote optimum growth of cognitive language, psychomotor, psychosocial, and self-help skills in young children with special needs. Building effective family-centered intervention programs will be modeled, while utilizing a transdisciplinary approach. The course seeks to correlate developmental concepts and behavioral strategies, while stressing the likeness of exceptional and non-exceptional child development. It will emphasize an inclusionary model and provide practical experiences in inclusive settings. The consultative role of the early intervention teacher will be examined, while providing practical experiences in developing IFSPs and IEPs.

Prerequisite: PSYC102

Corequisite: None

SPEC330 Physical Education & Recreation for the Disabled

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Provides acquaintance with various activities that can be used with persons with disabilities and without disabilities in outdoor, indoor and aquatic environments. Theory is combined with actual practice. All content evolves around the goal of including persons with disabilities with the non-disabled in regular physical education, recreation and leisure settings, acknowledging choice and variety.

Prerequisite: (SPEC105)

Corequisite: None

SPEC338 Positive Behavior Supports

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to examine the etiology, assessment practices, and intervention strategies espoused by various theoretical perspectives for individuals with mild, moderate, and severe emotional behavior disorders. Emphasis will be on the use of functional behavior assessment and various positive behavior support strategies that can be used in classrooms or related educational facilities.

Prerequisite: SPEC105 SPEC204

Corequisite: None

SPEC340 Gifted

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An elective designed to teach various strategies a teacher can use to meet the academic and social needs of the gifted and talented in the regular classroom setting. Provides opportunity to work with gifted and talented students as well as discussing the theoretical and practical problems of teaching them.

Prerequisite: SPEC105

Corequisite: None

SPEC345 Literacy Instruction for Students with Disabilities

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Addresses the needs of pre-service teachers who have the responsibility for literacy development and instruction for students with disabilities. Emphasis will be given to literacy components, evidence-based practices, and varying challenges students with disabilities have in learning to read and write.

Prerequisite: SPEC204 SPEC105

Corequisite: None

SPEC407 Student Teaching & Practicum Mentally/Physically Disabled 1

[Minimum Semester Hours: 7 sh; Maximum Semester Hours: 7 sh]

Student teaching provides the capstone experience for pre-service teachers. Two student teaching experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

SPEC408 Student Teaching & Practicum Mentally/Physically Disabled 2

[Minimum Semester Hours: 7 sh; Maximum Semester Hours: 7 sh]

Student teaching provides the capstone experience for pre-service teachers. Two student teaching experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

SPEC420 Assessing Educational Needs: Special Education Professional Semester

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to educational assessment. Emphasis is on knowledge of test content and purpose to enable selection of appropriate instruments for identification and assessment of students with learning difficulties. Basic elements of test design and usage are presented. Students survey various commercially available instruments and administer selected tests. Students will also conduct and use a portfolio assessment to develop an IEP for a child during the participation experience. This offering is designed to enable all education majors to meet required competencies for instructing students with disabilities in the least restrictive environment.

Prerequisite: None

Corequisite: None

SPEC421 Curriculum Methods for Secondary through Transition: Special Education Professional Semester

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course offers a broad spectrum of instructional methodologies that are appropriate across various academic and life skills curriculum. Emphasis will be placed on preparing adolescents for transition from school to society. Students will write and implement lesson plans, teach units of study, develop and apply adaptations and accommodations, and demonstrate instructional practices that can be used in various content areas.

Prerequisite: None

Corequisite: None

SPEC423 Curriculum Methods for Preschool through Elementary: Special Education Professional Semester

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course offers a broad spectrum of instructional methodologies that are appropriate across various academic and life skill curriculums for preschool and elementary exceptional learners. Students will write and implement lesson plans, teach units of study, develop and apply adaptations and accommodations, and demonstrate instructional practices that can be used in various content areas.

Prerequisite: None

Corequisite: None

SPEC424 Materials and Resources: Special Education Professional Semester

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is designed to provide opportunities to explore and evaluate commercial curriculum materials and software for use in special educational settings. Additionally, students will create appropriate needs-based instructional materials and generate necessary adaptations to existing curriculum in a variety of settings. Students will gain extensive practice in creating quality teaching materials.

Prerequisite: None

Corequisite: None

SPEC425 Law and Collaborative Practices

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Elaborates on the major laws and the changing roles of special educators and support staff to serve all students, including those with exceptional learning needs (ELN). Topics addressed include laws, ethics, working with families, paraprofessionals, inclusive settings, co-teaching, collaboration/consultation models, team planning, and conferencing skills.

Prerequisite: None

Corequisite: None

SPEC426 Establishing and Maintaining Learning Environments in Spec Ed Special Educ Prof Semester

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

This course is designed to provide strategies for organizing, planning, and delivery of instruction in special education settings. Applications for organizing a classroom will be developed to include environments for individuals with mild, moderate and severe disabilities and various levels of support.

Prerequisite: None

Corequisite: None

SPEC430 Assessing Educational Needs and Planning for Instruction

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Introduces students to educational assessment and instructional planning. This course emphasizes the administration and interpretation of formal and informal individual assessments used in identifying needs of students with disabilities. Students will gain experience in administering assessment instruments and writing evaluation reports and individualized educational programs.

Prerequisite: None

Corequisite: None

SPEC440 Strategies for Teaching Students with Low Incidence Disabilities

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Offers a broad spectrum of instructional methodologies appropriate across all levels of academic and life skill individualized independence curriculums for individuals with exceptional learning needs (ELN). Students will develop and implement lesson plans across content areas, strategies that promote positive behavior and social skills, and appropriate adaptations and accommodations.

Prerequisite: None

Corequisite: None

SPEC441 Strategies for Teaching Students with High Incidence Disabilities

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to offer a broad spectrum of instructional methodologies appropriate across all levels of academic individualized general curricula for individuals with exceptional learning needs (ELN). Students will develop and implement lesson plans across content areas, strategies that promote positive behavior and social skills, and appropriate adaptations and accommodations.

Prerequisite: None

Corequisite: None

SPEC450 Community Service Field Experience

[Minimum Semester Hours: 12 sh; Maximum Semester Hours: 12 sh]

An internship where students are placed in a community organization/agency that serves individuals with disabilities and will be under the supervision of an experienced professional who is employed by the agency and a special education faculty member. Students are expected to develop an in-depth understanding of the agency activities, programs, and services, and will assume increasing levels of responsibility as beginning level professionals.

Prerequisite: None

Corequisite: None

SPEC493 Student Teaching & Practicum Mentally/Physically Disabled 1

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

Student teaching provides the capstone experience for pre-service teachers. Experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day.

Prerequisite: None

Corequisite: None

SPEC494 Student Teaching & Practicum Mentally/Physically Disabled 2

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

Student teaching provides the capstone experience for pre-service teachers. Experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day.

Prerequisite: None

Corequisite: None

SPRT106 Introduction to Sport Administration

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Prepares students to work as managers and administrators in a variety of sport settings. Skills needed to plan and manage sport events and sport programs in a variety of settings will be covered. Private and public schools, and sport club environments will be explored. Enrollment in this course is restricted to health and physical education majors in the Sport Administration track, unless otherwise approved by the health and physical education department chair.

Prerequisite: None

Corequisite: None

SPRT208 Introduction to Sport and Exercise Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introductory overview of the psychological aspects of sport and exercise. Provides a broad overview for understanding the behavior of individuals in sport and exercise settings. Integrates theories, principles and models with an emphasis on current research findings from sport and exercise settings. Content areas include personality and motivation factors, performance in groups, and the psychological effects of participation in sport and exercise.

Prerequisite: (PSYC100)

Corequisite: None

SPRT223 Contemporary Issues and Problems in Sport Administration

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Students taking this course consider current issues and problems in sport management in a seminar format that requires solutions to practical problems and visits to sport facilities to consider management problems. Students research, discuss and debate current issues in the area of sport administration. Guest speakers, presentation of position papers and class debate allow students to express and appreciate a variety of perspectives related to sport administrative problems and their solutions.

Prerequisite: None

Corequisite: None

SPRT233 Sport Sales, Sponsorship, and Fundraising

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to provide the student with knowledge pertaining to sport sales, sponsorship, and fundraising and their various aspects including: planned presentations, cold calling, the sales pitch, sales reports, sales letters, donor recruitment and development, community fundraising, and legal and ethical issues in sales and fundraising.

Prerequisite: None

Corequisite: None

SPRT305 Psychology of Coaching

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A comprehensive overview of the coaching profession and the coach-athlete relationship. Emphasis is placed on high school and intercollegiate level sport with consideration given to coaching youth and recreational sport programs. The course will be an application of current research findings and principles as they relate to coaching. The course will prepare students for the American Sport Education Program certification.

Prerequisite: None

Corequisite: None

SPRT317 Evaluation in Sport Administration

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Intended for future professionals in the field of Sport Administration, the course utilizes evaluation theories, models, methods and competencies. Emphasis is placed on the practical application of the evaluation process which will focus upon sport organization (public and private) programs and personnel within a sports organization.

Prerequisite: (SPRT106 AND SPRT223)

Corequisite: None

SPRT318 Advanced Theory and Application of Sport and Exercise Psychology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Advanced study and application of the psychological aspects of sport and exercise. Integrates theories, principles and models of sport and exercise psychology with an emphasis on current research findings. Analysis and discussion of recent research includes the effects of psychological variables on performance in sport and exercise settings, as well as consideration of application in other domains. Applied component complements lecture material.

Prerequisite: (SPRT208)

Corequisite: None

SPRT321 Management and Leadership of Sport

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An in-depth analysis of the sport industry with special emphasis given to the sport manager's roles and functions. An in depth analysis of planning, organizing, leading, and controlling as they apply to the sport managers and leaders in a sport organization.

Prerequisite: (SPRT106 AND SPRT223)

Corequisite: None

SPRT323 Sport and Society

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines the role of sport in North American culture and in a global context. The pervasiveness of sport in all areas of society will be investigated from a sociological perspective. Analysis of issues impacting informal, organized and professional sports will be considered. Attention will be given to the common characteristics within sport and society, including societal values, social problems, politics, the economy, disabilities, mass media, and race.

Prerequisite: (SPRT106)

Corequisite: None

SPRT324 Sport Law and Ethics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examination of sport law and ethics to provide students with knowledge of legal issues that are involved in sport. Sport law provides legal and ethical issues and information that is often encountered in sport and physical activity. This course will analyze legal elements, court cases, and awareness of the rights of sport as it relates to participants, spectators, managers, and teachers.

Prerequisite: (SPRT106 AND SPRT223)

Corequisite: None

SPRT332 Sport Marketing Management

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to provide the student with knowledge pertaining to sports marketing and its various aspects including: pricing, promotion, sponsorships, endorsements, research, and licensing.

Prerequisite: None

Corequisite: None

SPRT335 Sport Administration and Community Relations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Intended for future professionals in the field of Sport Administration. Analyzes the various relationships between a sport administration department (public or private, high school or college) and the community in which it is located. Emphasis will be placed on the practical application of concepts, principles and practices between an educational institution and community associations and the role of the sport administrator. Restricted to Sport Administration majors or permission of the instructor.

Prerequisite: (SPRT106 AND SPRT223)

Corequisite: None

SPRT337 Governance of Sport

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An examination the structure and procedure of international, professional, collegiate, and interscholastic sport governing agencies. Develop an understanding of various sport governing agencies authority and functions of each governing agency; requirements necessary to become a member of the sport league/organization; rules and regulations of each sport governing body; and current issues and future trends for each governing agency. Interact with key management personnel from sport organizations, and analyze the impact of sport events.

Prerequisite: (SPRT106 AND SPRT223)

Corequisite: None

SPRT340 Sport Media Communication Relations

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An examination of the interrelationship between sports and media in today's society. This course draws on theories of rhetoric and social criticism by examining media's role in telling the story of sports and, in telling that story, shaping and reinforcing cultural values. The course will utilize various broadcasts, print, and electronic media to examine how they are vital to the success of the sport organization.

Prerequisite: None

Corequisite: None

SPRT401 Sport Facility Management and Operation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines the role of sport that will allow students to learn the factors involved in obtaining, running, building, and managing sporting events. They will also learn the guidelines for designing, constructing, maintaining, scheduling, and managing a sport facility.

Prerequisite: (RECR330 AND SPRT321 AND SPRT323 AND SPRT324)

Corequisite: None

SPRT402 Sport Business Finance

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to provide a detailed examination of the relationship between sport and corporate sponsorship. Topics covered will include the theoretical premise of sponsorship, alignment marketing, strategic communication through sponsorship, determining value of a sponsorship, and evaluation of sponsorship activities. Perspectives from the event holder (i.e., property) offering a sponsorship and from the organization functioning as the sponsor will be considered.

Prerequisite: None

Corequisite: None

SPRT450 Sport Administration Professional Field Experience

[Minimum Semester Hours: 12 sh; Maximum Semester Hours: 12 sh]

Designed to provide the student with the opportunity for on-the-job experience in a sport administration setting. The student will work under the supervision of a professional in the field and be exposed to a variety of sport administration tasks which may include sales, sponsorship, fundraising, event planning, marketing, community and public relations, and sports media and information. Experiences may take place in public or private organizations, schools and athletic settings.

Prerequisite: None

Corequisite: None

SPRT465 Organization and Administration of Sport and Athletic Programs

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The philosophy of athletics and sport programs, communication and leadership skills, facilities and equipment management, budgeting, personnel management, risk management, public relations and current issues will be explored. Students will be guided in the preparation of position papers, research reports, and presentations relating to the administration of athletic and sport programs, with the intent of providing realistic pre-professional experiences in the field. Amateur, professional, public and private athletic sport settings will be discussed.

Prerequisite: (SPRT106 AND SPRT223)

Corequisite: None

SSED119 First Year Seminar for Social Studies Education Students

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1sh]

An introduction to the underpinnings of social studies education at the secondary level for future social studies teachers. The course guides students through their Stage I Teacher Education requirements and early field experience tasks and addresses topics taught in generic freshman seminars. Must be taken by all Citizenship Education majors

Prerequisite: None

Corequisite: None

SSED210 Secondary Education 1: Social Studies

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An integrated approach to teacher preparation in social studies in a middle school and high school setting. Emphasis is on methods, materials, and strategies for teaching social studies subjects required for certification in Social Studies Education by the Pennsylvania Department of Education. The course is the first of a two part sequence of courses and is followed by Secondary Education II: Social Studies. Restricted to students majoring in Secondary Education Social Studies with the required current 3.0 overall and 3.0 in-major GPA requirements.

Prerequisite: PSYC103 AND SPEC204

Corequisite: None

SSED316 Secondary Education 2: Social Studies

[Minimum Semester Hours: 4 sh; Maximum Semester Hours: 4 sh]

Course description is missing.

Prerequisite: None

Corequisite: None

SSED415 Student Teaching and Practicum Secondary 1: Social Studies

[Minimum Semester Hours: 7 sh; Maximum Semester Hours: 7 sh]

Student teaching provides the capstone experience for preservice teachers. Two student teaching experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

SSED416 Student Teaching and Practicum Secondary 2: Social Studies

[Minimum Semester Hours: 7 sh; Maximum Semester Hours: 7 sh]

Student teaching provides the capstone experience for preservice teachers. Two student teaching experiences are provided at two levels (appropriate to certification areas and grade level ranges). Supervised practice in classrooms with certified teachers introduces the student to all aspects of the teaching day. University professors supervise the student teachers and conduct weekly practicum sessions.

Prerequisite: None

Corequisite: None

SSED493 Student Teaching and Professional Practicum 1

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

A capstone experience, or of two student teaching experiences required for certification in secondary social studies. Students are placed in a social studies classroom and teach under the supervision of a certified social studies teacher for one half semester. University professors conduct regular practicum sessions, according to prescribed guidelines, and supervise the student teachers. To register, a student must meet Pennsylvania State Teacher Education Guidelines, have a 3.0 GPA overall and in major with no course less than a "C" in professional courses, and have successfully completed required early field experiences. A student must show scores or the admittance ticket (showing evidence that the test date is before the first day of student teaching) of the required Praxis II exam for their major before starting student teaching.

Prerequisite: None

Corequisite: None

SSED494 Student Teaching and Professional Practicum 2

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6sh]

A capstone experience, or of two student teaching experiences required for certification in secondary social studies. Students are placed in a social studies classroom and teach under the supervision of a certified social studies teacher for one half semester. University professors conduct regular practicum sessions, according to prescribed guidelines, and supervise the student teachers. To

register, a student must meet Pennsylvania State Teacher Education Guidelines, have a 3.0 GPA overall and in major with no course less than a "C" in professional courses, and have successfully completed required early field experiences. A student must show scores or the admittance ticket (showing evidence that the test date is before the first day of student teaching) of the required Praxis II exam for their major before starting student teaching.

Prerequisite: None

Corequisite: None

SURG100 Introduction to Surgical Technology

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Introduce the student to the broad field of surgical technology by addressing introductory topics and concepts related to patient care in the surgical setting.

Prerequisite: None

Corequisite: None

SURG110 Surgical Asepsis

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Designed to provide an overview of the concepts and principles of microbiology as related to surgical practice, including a study of microscopic life forms, microbes and disease, and immunology. This course provides the concepts, principles, techniques, and applications related to disinfection, sterilization, and antisepsis as they apply to the operating room.

Prerequisite: None

Corequisite: None

SURG111 Surgical Asepsis Practicum

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to permit application and hands-on practice of the decontamination, disinfection, and sterilization of basic surgical instrumentation.

Prerequisite: None

Corequisite: None

SURG115 Principles and Practices of Surgical Technology

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Designed to introduce knowledge, skills, and techniques utilized during the surgical experience, including scrubbing, gowning, and gloving; the establishment of the sterile field with the armamentarium of sutures, instruments, and supplies. It is a prerequisite course for entry into the clinical training sequence of surgical technology courses.

Prerequisite: None

Corequisite: None

SURG116 Surgical Technology Laboratory

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Designed to allow practice and return-demonstration of the principles and procedures related to the knowledge, skills, and techniques utilized during the surgical experience, including scrubbing, gowning, and gloving and the establishment of the sterile field with the armamentarium of sutures, instruments, and supplies in a non-patient contact environment. It is a prerequisite course for entry into the clinical training sequence of surgical technology courses. Restrictions Upon Registration: Restricted to matriculating students in the surgical technology major.

Prerequisite: None

Corequisite: None

SURG120 Surgical Pharmacology

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2sh]

Identifies the elements, actions, and use of medications and anesthetic agents used during the perioperative experience. It is a prerequisite course for entry into the clinical training sequence of surgical technology courses.

Prerequisite: None

Corequisite: None

SURG200 Professional Issues in Surgical Technology

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Explores the area of stress in relation to the individual patient and the Surgical Technologist, discusses the basic concepts related to death and dying, explores the area of ethics in the surgical setting, discusses the concepts of teamwork, leadership, and critical thinking, and guides in preparations to assist Surgical Technologist in their transition from education to the workplace.

Prerequisite: None

Corequisite: None

SURG250 Surgical Procedures 1

[Minimum Semester Hours: 6 sh; Maximum Semester Hours: 6 sh]

Explores the diagnostic and surgical interventions of General, Obstetrics/Gynecologic (OB/GYN), Gastrointestinal/Biliary, Otorhinolaryngeal, Ophthalmic, and Genitourinary/Male Reproductive Surgery, while integrating the knowledge, skills, and techniques utilized during the surgical experience on the procedural level. The surgical considerations of special populations (pediatric, geriatric, disabled, immunocompromised, and trauma patients) will be discussed. Job skills and resume preparation are also addressed. It is a prerequisite course for entry into the clinical training sequence of surgical technology courses.

Prerequisite: (HLTH100 AND HLTH115 AND HLTH120 AND SURG100 AND SURG110 AND SURG115)

Corequisite: None

SURG260 Surgical Procedures 2

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Explores the diagnostic and surgical interventions of Thoracic, Cardiovascular, Plastic and Reconstructive and Neurosurgery while integrating the knowledge, skills, and techniques utilized during the surgical experience on the procedural level. It is a

Prerequisite: (SURG120 AND SURG170)

Corequisite: None

SURG270 Operating Room Clinical Externship

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 5 sh]

Implement learned theory, principles, and procedures taught in the classroom via patient contact as a member of the operating room team. This experience takes place in area hospitals and focuses on the performance of the ten defined activities of the surgical technologist - scrub role (STSR) through participation in Level I, II, and III core and specialty surgical procedures. Registration is restricted to matriculating students in the Surgical Technology Program who have a 2.7 GPA or better, and a B or better in HLTH115 and HLTH120. SURG270 (2.0 sh), SURG270 (4.0 sh), and SURG270 (5.0 sh).

Prerequisite: None

Corequisite: None

THEA110 Theatre: An Orientation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to theatre. It includes a definition and analysis of theatrical art, script analysis, the relationship between theatre and the culture from which it came and the roles of theatre practitioners. The course includes hands-on application and group work. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

THEA117 Technical Theatre

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

A lecture-lab approach to the art and craft of scenery construction, property construction, scene painting, basic stage lighting, and organization of technical aspects of theatrical production. Suggested for those who wish to learn behind-the-scene aspects of play production. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

THEA121 Theatre Workshop 1

[Minimum Semester Hours: 1 sh; Maximum Semester Hours: 1 sh]

Participation in a theatrical production sponsored by the Department. Students contract to work in one area of production: acting, set construction, costume construction, lighting, sound, properties, make-up, promotions, or assistant to the director. Course may be repeated up to a total of 12 sh. Majors must earn at least 6 sh in this course or in combination with THEA421. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

THEA134 Acting 1

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The study and practice of the fundamental principles of acting. Stress is placed on the use of the body and voice as the basis of effective acting. This course is for those interested in acting as an art form and as a means of creative expression. At mid-term students will have gained the necessary skill to perform scenes for their classmates. Attendance is key to the successful completion of this course. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

THEA137 Creative Dramatics

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Sequenced experiences and exercises in creative drama and improvisation for developing and refining bodily movement, characterizations, and organic reaction. Through structured theatre games and problem solving situations, participants acquire theatrical skills and disciplines without conscious attention. Students will participate in as well as direct creative and dramatic exploration and play making. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

THEA188 Stage Make-Up

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Fundamental training in the principles of stage make-up design and application for the actor as well as the make-up artist. Students will focus on the analysis of dramatic characterization of a role in a play. Students will engage in the design and application of stage make-up to achieve the physical fulfillment of that analysis. Special attention is paid to modern make-up media and methods employed in today's stage, screen and television productions. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

THEA200 Survey of Dramatic Literature

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Investigates and questions, through the analysis of dramatic texts, the relationship of history and representation to identity and culture.

Prerequisite: None

Corequisite: None

THEA222 Children's Theatre

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

Theory and practice of formal and informal theatre for children through the study of scripts, production, and performance aspects. Emphasis is on the final product and how it comes about with special emphasis placed on how to conceive, produce, direct and promote children's theatre for the classroom, community and the paying public. Fulfills General Education Requirements.

Prerequisite: None

Corequisite: None

THEA300 Stage Lighting

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

An introduction to stage lighting as an art form. Students will develop skills in script analysis. The student will study techniques of how this analysis is translated into setting the physical and psychological environment of the play. The student will be able to translate this understanding into a practical scheme of lighting instrumentation. Additionally, the course includes: a brief history of stage lighting; a study of lighting instruments, hardware and control systems; use of color; and methods of achieving special effects.

Prerequisite: (THEA117) OR (THEA121) OR (THEA134) OR (THEA137) OR (THEA150) OR (THEA188) OR (THEA222) OR (THEA236) OR (THEA110)

Corequisite: None

THEA315 Intermediate Acting

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A study of the principles and techniques of character acting including procedures for analyzing plays, determining the personality of a particular character and relationship to other characters, and developing the means to project the character to an audience. Particular attention is paid to genre, structural analysis and the character's relation to the whole.

Prerequisite: (THEA121) OR (THEA134) OR (THEA137) OR (THEA150) OR (THEA110)

Corequisite: None

THEA328 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Humanities seminar.

Prerequisite: None

Corequisite: None

THEA333 Oral Interpretation

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Theory and techniques of oral interpretation. Class activities include selection, analysis, preparation and presentations of selections from prose fiction, drama and poetry.

Prerequisite: None

Corequisite: None

THEA335 Directing

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The preparation of the theatrical director; the fundamental elements of play direction; the media of the director; composition, picturization, movement, rhythm, pantomime, rehearsal and production procedures. Students will be responsible for directing scenes from dramatic literature. These presentations are a laboratory experience and are designed to measure students' understanding of the basic principles of stage direction.

Prerequisite: (THEA117) OR (THEA121) OR (THEA134) OR (THEA137) OR (THEA150) OR (THEA188) OR (THEA222) OR (THEA236) OR (THEA110)

Corequisite: None

THEA337 Scene Design

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An introduction to scene design as an art. Through play analysis the student conceives and designs scenery for a variety of theatre environments. Activities include drafting, model building, and architectural research.

Prerequisite: (THEA117) OR (THEA121) OR (THEA134) OR (THEA137) OR (THEA150) OR (THEA188) OR (THEA222) OR (THEA236) OR (THEA110)

Corequisite: None

THEA340 History of the Theatre

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

The development of the theatre as an art form. Special emphasis is placed on the evolution of playwriting as a artistic extension of cultural expression of a given historical period. Other areas of study include the evolution of acting styles, theatre architecture, and staging techniques.

Prerequisite: (THEA117) OR (THEA121) OR (THEA134) OR (THEA137) OR (THEA150) OR (THEA188) OR (THEA222) OR (THEA236) OR (THEA110)

Corequisite: None

THEA366 Stage Costume Design

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A course designed to give the student fundamental training in the theory and practice of theatrical costume design and construction.

Prerequisite: (THEA150) OR (THEA110)

Corequisite: None

THEA370 Play Production

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

A lecture-lab examination of techniques of play production approached from the viewpoints of the actor, the director, and the technical director. Special emphasis on play selection and rehearsal procedures for amateur groups; high schools, community theatre and civic organizations.

Prerequisite: (THEA117) OR (THEA121) OR (THEA134) OR (THEA137) OR (THEA150) OR (THEA188) OR (THEA222) OR (THEA236) OR (THEA110)

Corequisite: None

THEA421 Theatre Workshop 2

[Minimum Semester Hours: 2 sh; Maximum Semester Hours: 2 sh]

Participation in a full-length, theatrical production, sponsored by the Department, as stage manager, set designer, lighting designer, costume designer, or director.

Prerequisite: (THEA121) OR (THEA117) OR (THEA134) OR (THEA150) OR (THEA188) OR (THEA222) OR (THEA236) OR (THEA110)

Corequisite: None

THEA628 Humanities Seminar

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3 sh]

Examines the social, cultural and politically powerful connections between our gender identities (as they have been historically constructed) and the various modes of performance (including live theatre, television, film, games, and other digital media) that continue to represent those gendered identities and, in doing so, significantly influence how we both investigate and create history.

Prerequisite: None

Corequisite: None

WMST101 Introduction to Women's Studies

[Minimum Semester Hours: 3 sh; Maximum Semester Hours: 3sh]

An exploration of the social construction of gender and the interconnections between gender, race, and power in the lives of women. Using feminist and diverse culture perspectives, students will examine such issues as work, family, sexuality, and religion and will work to find strategies to create a more egalitarian society.

Prerequisite: None

Corequisite: None

GENERAL EDUCATION COURSE LISTING

List is accurate as of 07/19/2011. Updated list is available at www.lhup.edu/catalog.

GENERAL EDUCATION COURSES AND OVERLAYS (as of 07/19/2011)

OVERLAY REQUIREMENTS FOR STUDENTS *(see bottom of chart for additional details)*

External Experience -- 2 units (bachelor degree candidates); 1 unit (associate degree candidates)

Information Literacy -- 2 courses (bachelor degree candidates); 1 course (associate degree candidates)

Multicultural -- 2 courses (bachelor degree candidates); 1 course (associate degree candidates)

Writing Emphasis -- 3 courses beyond ENGL100 (bachelor degree candidates); 2 courses beyond ENGL100 (associate degree candidates)

Overlays below coded as being by section will be noted on the semester schedule of classes if satisfy overlay.

Course Descriptions

NOTE: Only where there is an entry in the box(es) to the right of the course does that course meet the specific requirement(s) at the top of the column.
No entry = course does not meet the requirement for the column heading.

COURSE	TITLE	MEETS GENERAL EDUCATION REQUIREMENT	EXTERNAL EXPERIENCE	INFORMATION LITERACY	MULTI-CULTURAL	WRITING EMPHASIS
ACCT200	Effective Writing for Accounting and Finance			course		course
ADAC119	First Year Student Seminar					section, Julie Story (effective FA11)
ALTE480	Alternative Education Practicum		2 units			
ANTH101	Intro Anthropology	Sociology / Anthropology / Geography / Social Work			course	
ANTH102	Cultural Anthropology	Sociology / Anthropology / Geography / Social Work			course	
ANTH323	Cultures North American Indians				course	
ANTH328	Social Science Seminar: Anthropology of Women			course	course	
ANTH330	Japanese Culture and Society				course	
ANTH422	Anthropology Latin America			course	course	
ANTH424	Anthropology of the Middle East				course	

ART100	Understanding Art	Art/Music/Theatre/Dance				
ART102	Art Fundamentals	Art/Music/Theatre/Dance				
ART103	Introduction to Art	Art/Music/Theatre/Dance				
ART105	Introduction Three-Dimensional Art	Art/Music/Theatre/Dance				
ART110	Color & Two-Dimensional Design	Art/Music/Theatre/Dance				
ART112	Drawing 1	Art/Music/Theatre/Dance				
ART217	Introduction to Electronic Art	Art/Music/Theatre/Dance				
ART227	History of Graphic Design	Art/Music/Theatre/Dance				
ART300	Arts and Crafts	Art/Music/Theatre/Dance				
ART301	Renaissance and Baroque Art	Art/Music/Theatre/Dance				course, effective SP05
ART304	Ancient & Medieval Art	Art/Music/Theatre/Dance				course, effective SP05
ART305	Pottery	Art/Music/Theatre/Dance				
ART307	Asian Art	Art/Music/Theatre/Dance				
ART309	Fabrics and Fibers	Art/Music/Theatre/Dance			course	
ART312	Drawing 2	Art/Music/Theatre/Dance				
ART315	Ceramics: Techniques in Hand- building and Tile Construction	Art/Music/Theatre/Dance				
ART325	Printmaking	Art/Music/Theatre/Dance				
ART328	Humanities Seminar: Art Studies in American Museums-Washington DC		2 units			
ART328	Humanities Seminar: Studies Abroad		2 units	course	course	
ART330	Painting	Art/Music/Theatre/Dance				
ART335	Sculpture & Three-Dimensional Design	Art/Music/Theatre/Dance				
ART340	Jewelry	Art/Music/Theatre/Dance				
ART342	Print Design	Art/Music/Theatre/Dance				
ART345	Metals - Surface and Form Manipulation	Art/Music/Theatre/Dance				
ART350	Photography 1	Art/Music/Theatre/Dance				
ART401	History of Modern Art	Art/Music/Theatre/Dance				
ART420	Art Since 1950	Art/Music/Theatre/Dance				course
ART425	Special Problems	Art/Music/Theatre/Dance				
ART425	Special Problems: Fabrics and Fibers	Art/Music/Theatre/Dance			course	
ART430	American Art: Unity in Diversity	Art/Music/Theatre/Dance				course, effective SP05

ART440	Aesthetics, Portfolios and Exhibitions		2 units			
ATTR202	Care and Prevention of Athletic Injuries			section		
ATTR230	Evidence-Based Medicine			course		
ATTR332	Psychological Aspects of Injury and Illness			course		course
ATTR365	Evaluation Techniques II					course
ATTR404	Administration and Organization of Athletic Training 2					course
ATTR453	Athletic Training Clinical Experience 1		1 unit			
ATTR454	Athletic Training Clinical Experience 2		1 unit			
ATTR455	Athletic Training Clinical Experience 3		1 unit			
ATTR456	Athletic Training Clinical Experience 4		1 unit			
ATTR457	Athletic Training Clinical Experience 5		1 unit			
AVIA115	Aviation/Aerospace Workshop	Natural/Lab Science (only 3.0 sh of the 6.0 sh count for gen ed)				
BIOL101	Basic Biology	Natural/Lab Science (may not take both BIOL101 and BIOL106 to meet 6.0 sh)				
BIOL102	Environmental Science	Natural/Lab Science				
BIOL103	Inquiry into Biology	Natural/Lab Science				
BIOL106	Principles of Biology 1	Natural/Lab Science (may not take both BIOL101 and BIOL106 to meet 6.0 sh)				
BIOL107	Principles of Biology 2	Natural/Lab Science		course		course
BIOL108	Field Natural History	Natural/Lab Science				
BIOL110	Intro Microbiology	Natural/Lab Science				
BIOL300	Plant Physiology			course		section
BIOL317	Mycology			course		course
BIOL405	Field Ecology			course		course
BIOL409	Ornithology			course		course
BIOL410	Organismal Physiology					course
BIOL415	Environmental Policy & Regulations			course		
CHEM101	Chemistry in the Environment	Natural/Lab Science				
CHEM103	The Chemistry of Art	Natural/Lab Science				
CHEM105	Forensic Chemistry	Natural/Lab Science				

CHEM120	Principles of Chemistry 1	Natural/Lab Science				
CHEM121	Principles of Chemistry 2	Natural/Lab Science				
CHEM301	Inorganic Chemistry					course
CHEM317	Instrumental Analysis					course, effective SP06
CHEM330	Chemical Literature			course		
CHEM359	Special Topics: Radiochemistry (one-time offering)					course
CHEM410	Biochemistry					section
CHEM415	Biochemistry 2					section
CHEM430	Advanced Organic Chemistry			course		
CHIN101	Chinese 1				course	
CHIN102	Chinese 2				course	
CHIN201	Chinese 3				course	
CHIN202	Chinese 4				course	
CISC220	Contemporary Issues in Computing			course		course, effective FA05
CISC304	Data and Computer Communications					course
CISC306	Systems Analysis and Design		1 unit, section			section
COMM100	Introduction to Communication	Speech		course		
COMM102	Fundamentals of Public Speaking	Speech		course		
COMM103	Small Group Communication	Speech				
COMM104	Interpersonal Communication	Speech				section
COMM190	Writing for the Mass Media			course		course
COMM202	Supervised Communication Practicum		1 unit			
COMM205	Computer-Mediated Writing			course		course
COMM210	Gender and the Mass Media				course	
COMM250	The Movies Look at the Media Professions				course	
COMM290	News Reporting		2 units	course		course
COMM295	Radio Journalism					course
COMM300	Organizational Communication		1 unit			course
COMM303	Argumentation & Debate	Speech		course, effective SP07		
COMM305	Television Criticism					section

COMM315	Corporate Video Production		2 units			
COMM320	Business Communication					section
COMM328	Humanities Seminar: Media Literacy				course	
COMM328	Humanities Seminar: Religion and Mass Media				course	
COMM330	Cultural Studies in Mass Communication				course	course
COMM333	Public Relations					section
COMM340	Advertising Design			course		
COMM350	Introduction to Communication Research			course		
COMM355	Environmental Journalism		1 unit			course
COMM369	Internship		2 units			
COMM375	Persuasion			course		section
COMM390	Feature Writing			course		course
COMM391	Sports Writing					course
COMM392	Documentary Film				course	
COMM393	News Editing			course		course
COMM394	Magazine Writing			course		
COMM400	Communication Capstone Seminar		2 units			
COMM405	Communication and Responsibility			section		section
COMM450	Opinion Writing			course		course
COMM488	Case Studies in Public Relations					course
COMM491	Propaganda and Public Opinion				course	
COMM493	Online Journalism			course		course
COMM494	Communication Law & Ethics			course	course	
COMM495	Public Relations Writing			course		course
COMM496	Advertising Campaign Development		2 units, section			
COMP220	Contemporary Issues in Computing			course		course, effective FA05
COMP304	Data and Computer Communications					course
COMP306	Systems Analysis and Design		1 unit, section			section
COMP405	Software Engineering					course
CRJS300	Forensic Criminology			course		
CRJS305	Corrections					course
CRJS425	Senior Seminar in Criminal Justice			course		section

CRJS490	Criminal Justice Research					section
CVED200	Introduction to Deliberative Public Learning		1 unit			
DANC100	Beginning Modern Technique	Art/Music/Theatre/Dance				
DANC105	Basic Ballet Technique	Art/Music/Theatre/Dance				
DANC200	Intermediate Modern Technique					section
DANC205	Intermediate Ballet Technique					section
DANC210	Dance Composition 1	Art/Music/Theatre/Dance				
DANC300	Dance Integration for Elementary Education	Art/Music/Theatre/Dance				
DANC302	Dance in Western Culture					section
ECED150	Diversity in the Development of Infants, Toddlers and Young Children				course	course
ECED212	Language Development in Early Childhood					course
ECED332	Developing Creative Expression			course		course
ECED428	Student Teaching & Practicum Early Childhood 1		1 unit	course		course
ECED429	Student Teaching & Practicum Early Childhood 2		1 unit	course		course
ECED431	Science: Early Childhood Professional Semester		1 unit			
ECED432	Language Arts and Reading for Early Childhood		1 unit			
ECED433	Math Methods for Grades K-4		1 unit			
ECED434	Guidance and Communication: Early Childhood Professional Semester		1 unit	course		course
ECED493	Student Teaching & Practicum Early Childhood 1		1 unit	course		course
ECED494	Student Teaching & Practicum Early Childhood 2		1 unit	course		course
ECON101	Principles of Economics	Economics/Political Science				
EDTF300	Educational Technology for Specialized Disciplines			course		
EDTF301	Educational Technology for Secondary Education			course		
EDUC202	Children's Literature					section
EDUC444	Summer Urban Seminar		2 units		course	
EDUC472	Literacy and Language Arts: Elementary Professional Semester					course
EDUC477	Clinical Field Experiences: Elementary Professional Semester		2 units			
EDUC493	Student Teaching and Professional Practicum: Elementary 1		2 units	course	section	course
EDUC494	Student Teaching and Professional Practicum: Elementary 2		2 units	course	section	course
ENGL100	Composition	Composition		course, effective 05/2004		
ENGL110	Introduction to Literature	Literature				
ENGL206	Methods of Teaching English 1		2 units	course		course

ENGL220	World Literature	Literature			course	
ENGL230	British Literature Before 1800	Literature				
ENGL231	British Literature After 1800	Literature		course		
ENGL235	Literature for Adolescents & Young Adults					course
ENGL240	American Literature Before the Civil War	Literature		course		
ENGL242	American Literature After the Civil War	Literature		course		
ENGL264	Fiction Workshop					course
ENGL268	Poetry Workshop					course
ENGL280	Intro Study of Language					section
ENGL315	Composition Usage & Editing Tech		1 unit			course
ENGL345	Business Writing			course	course	course
ENGL357	Advanced Composition, Rhetoric and Writing			course		course
ENGL360	Technical Writing			course		course
ENGL408	Advanced Topics in Creative Writing					course, effective FA05
ENGL415	Student Teaching and Practicum Secondary 1: English		1 unit	course		course
ENGL416	Student Teaching and Practicum Secondary 2: English		1 unit	course		course
ENGL493	Student Teaching and Practicum 1 Secondary Education English		2 units	course		course
ENGL494	Student Teaching and Practicum 2 Secondary Education English		2 units	course		course
ENVT101	Intro to Environmental Studies			course		
FREN101	French 1				course	
FREN102	French 2				course	
FREN201	French 3				course	
FREN202	French 4				course	
FREN203	French Civilization 1				course	
FREN204	French Civilization 2				course	
FREN301	French Comp & Conversation 1				course	
FREN303	French Literature 1	Literature			course	
FREN304	French Literature 2	Literature			course	section
FREN305	French Linguistics				course	
FREN306	Current French Periodicals				course	
FREN310	Advanced French Grammar				course	
GEOG260	World Regional Geography	Sociology / Anthropology / Geography / Social Work				

GEOS101	Earth Science	Natural/Lab Science				
GEOS120	Oceanography	Natural/Lab Science				
GEOS130	Principles of Geology I	Natural/Lab Science				
GEOS131	Principles of Geology II	Natural/Lab Science				course
GEOS215	Environmental Geology	Natural/Lab Science				
GEOS230	Geomorphology	Natural/Lab Science				
GEOS301	Invertebrate Paleontology	Natural/Lab Science				
GEOS305	Mineralogy and Petrology	Natural/Lab Science				
GEOS315	Sedimentology	Natural/Lab Science				
GEOS328	Science Seminar: Geoscience					course
GEOS360	Hydrogeology	Natural/Lab Science				
GEOS361	Aqueous Environmental Geochemistry	Natural/Lab Science		course		
GEOS415	Stratigraphy	Natural/Lab Science		course		course
GEOS420	Geology of Energy & Mineral Resources	Natural/Lab Science				
GEOS430	Structural Geology	Natural/Lab Science				
GEOS450	Geophysics and Tectonics	Natural/Lab Science				section
GEOS451	Coastal Environmental Oceanography	Natural/Lab Science				
GEOS490	Capstone Research Project			course		course
GERM101	German 1					course
GERM102	German 2					course
GERM201	German 3					course
GERM202	German 4					course
GERM203	German Culture 1					course
GERM204	German Culture 2					course
GERM301	German Comp & Conversation 1					course
GERM302	German Comp & Conversation 2					course
GERM303	German Literature 1	Literature				course
GERM304	German Literature 2	Literature				course
GERM305	Advanced German Grammar 1					course
GERM306	Advanced German Grammar 2					course
GERM402	German Prose 2					course
GNED369	Internship		2 units			
HIST101	World History 1	World History				course
HIST102	World History 2	World History				course

HIST111	Global History 1	World History (History and Sec Ed/Social Studies majors only)			course	course
HIST112	Global History 2	World History (History and Sec Ed/Social Studies majors only)			course	course
HIST150	American History					
HIST159	Special Topics: US Immigration History				course	
HIST200	Historical Thinking and Writing			course		course
HIST302	Civil War & Reconstruction					section
HIST314	Oral History		1 unit			
HIST328	Social Science Seminar: Afro-American History					section
HIST480	Capstone Research Seminar		1 unit, section	course		
HLTH105	Introduction to Health	Wellness				
HLTH122	Essentials of Human Anatomy and Physiology	Natural/Lab Science (Health/Phys Ed majors only)				
HLTH202	Care and Prevention of Athletic Injuries			section		
HLTH208	Stress Management and Life Skills for Health Promotion	Wellness				
HLTH230	Evidence-Based Medicine			course		
HLTH307	Cultural Aspects of Health			course	course	
HLTH332	Psychological Aspects of Injury and Illness			course		course
HLTH365	Evaluation Techniques II					course
HLTH402	Evaluation in Health Education and Promotion Programs					section
HLTH404	Administration and Organization of Athletic Training 2					course
HLTH410	Community Health Organization Management		1 unit	course		
HLTH453	Athletic Training Clinical Experience 1		1 unit			
HLTH454	Athletic Training Clinical Experience 2		1 unit			
HLTH455	Athletic Training Clinical Experience 3		1 unit			
HLTH456	Athletic Training Clinical Experience 4		1 unit			
HLTH457	Athletic Training Clinical Experience 5		1 unit			
HLTH470	Sex Education for the Health Sciences			course		course
HLTH485	Professional Field Experience in Health Science		2 units			course
HLTH498	Health Science Seminar			course		section

HLTH498	Health Science Seminar: Comparative Health Care				section	
HLTH498	Health Science Seminar: London				section	
HLTH498	Health Science Seminar: Mexico				section	
HONR101	Honors: Historical & Philosophical Studies 1	History or Philosophy depending on instructor				section
HONR102	Honors: Historical & Philosophical Studies 2	History or Philosophy depending on instructor			course	section
HONR105	Honors: Mathematics in Contemporary Society	Mathematics				
HONR110	Honors: Concepts in Biological Sciences	Natural/Lab Science				
HONR111	Honors: Composition/Literature 1	Composition				
HONR112	Honors: Composition/Literature 2	Literature			course	course
HONR115	Honors: Earth Resources and Environment	Natural/Lab Science				
HONR180	Honors: Introductory Psychology	Psychology				
HONR200	Honors: Nutrition for Wellness	Wellness				
HPED060	Wellness for Life	Wellness				
HPED204	Psychological and Social Dimensions of Physical Activity and Sport				course	
HPED245	Health and Physical Education in the Elementary School	Wellness				
HPED323	Sport and Society				course	
HPED324	Sport Law and Ethics					course, effective SP10
HPED410	Sociology of Sport				course	
HPED425	Elementary Student Teaching and Professional Practicum		2 units			
HPED426	Practicum in Health & Physical Education		2 units	course		course
HPED427	Secondary Student Teaching and Professional Practicum		2 units			
HPED450	Physical Education Professional Field Experience		2 units			
HPED463	Organization & Administration of HPER			course		section
HPED465	Organization and Administration of Sport and Athletic Programs			course		course
HPED493	Elementary Student Teaching and Professional Practicum		2 units	course		course
HPED494	Secondary Student Teaching and Professional Practicum		2 units	course		course
ITAL101	Italian 1				course	
ITAL102	Italian 2				course	
ITAL201	Italian 3				course	
ITAL202	Italian 4				course	
JAPN101	Japanese 1				course	

JAPN102	Japanese 2				course	
JAPN201	Japanese 3				course	
JAPN202	Japanese 4				course	
LANG207	Secondary Education 1: Foreign Language		2 units	course		course
LANG313	Secondary Education 2: Foreign Language		2 units	course		course
LANG328	Humanities Seminar: Exploring Spain and Its Culture				course	
LANG328	Humanities Seminar: Francophone & Hispanic Cultures through Film				course	
LANG415	Student Teaching and Practicum Secondary 1: Foreign Language		1 unit	course		course
LANG416	Student Teaching and Practicum Secondary 2: Foreign Language		1 unit	course		course
MANG400	Business, Society and Government			course, effective SP08		course, effective SP08
MANG475	Capstone Seminar in Strategic Management			course		course
MATH101	Topics in Math	Mathematics				
MATH102	Number Systems	Mathematics				
MATH107	Basic Statistics 1	Mathematics				
MATH108	Basic Statistics 2	Mathematics				
MATH110	Consumer Math	Mathematics				
MATH112	Intermediate Algebra	Mathematics				
MATH113	Precalculus	Mathematics				
MATH135	Applied Algebra and Trigonometry	Mathematics				
MATH141	Calculus 1	Mathematics				
MATH142	Calculus 2	Mathematics				
MATH180	Mathematics for Management	Mathematics				
MATH200	Secondary Mathematics Methods 1		2 units	course		course
MATH205	Foundations of Mathematics	Mathematics				
MATH211	Linear Methods	Mathematics				
MATH215	Statistics and Geometry	Mathematics				
MATH225	History of Mathematics	Mathematics				section
MATH243	Calculus 3	Mathematics				
MATH244	Calculus 4	Mathematics				
MATH301	Differential Equations	Mathematics				
MATH302	Number Theory	Mathematics				
MATH307	Foundations of Geometry	Mathematics				
MATH310	Modern Algebra 1	Mathematics				
MATH311	Elements of Linear Algebra	Mathematics				

MATH312	Probability & Statistics	Mathematics				
MATH316	Secondary Mathematics Methods 2		2 units	course		course
MATH320	Linear Programming	Mathematics				
MATH350	Numerical Methods	Mathematics				
MATH401	Real Analysis 1	Mathematics				
MATH402	Real Analysis 2	Mathematics				
MATH404	Applied Mathematics	Mathematics				
MATH410	Intro to Topology	Mathematics				
MATH412	Actuarial Mathematics	Mathematics				
MATH415	Student Teaching and Practicum Secondary 1: Mathematics		1 unit	course		course
MATH416	Student Teaching and Practicum Secondary 2: Mathematics		1 unit	course		course
MATH493	Student Teaching and Professional Practicum 1		2 units	course		course
MATH494	Student Teaching and Professional Practicum 2		2 units	course		course
MILS104	Leadership and Personal Development	Wellness				
MILS105	Introduction to Tactical Leadership	Wellness				
MILS204	Innovative Team Leadership	Wellness				
MILS205	Foundations of Tactical Leadership	Wellness				
MUSI101	Introduction to Music	Art/Music/Theatre/Dance				section
MUSI103	Basic Musicianship	Art/Music/Theatre/Dance				
MUSI105	Exploring Contemporary Trends in Jazz, Rock, & Musical Theatre	Art/Music/Theatre/Dance				
MUSI108	Music Explorations	Art/Music/Theatre/Dance				
MUSI109	Group Piano I	Art/Music/Theatre/Dance				
MUSI110	Introduction to Singing	Art/Music/Theatre/Dance				
MUSI111	University Choir	Art/Music/Theatre/Dance				
MUSI112	University Band	Art/Music/Theatre/Dance				
MUSI113	Percussion Ensemble	Art/Music/Theatre/Dance				
MUSI114	Jazz/Rock Ensemble	Art/Music/Theatre/Dance				
MUSI115	Ensemble Small Choral	Art/Music/Theatre/Dance				
MUSI116	Ensemble Small Instrument	Art/Music/Theatre/Dance				
MUSI121	Applied Music 1	Art/Music/Theatre/Dance				
MUSI203	Music Theory 1	Art/Music/Theatre/Dance				
MUSI305	Jazz Studies	Art/Music/Theatre/Dance			course	
MUSI312	Music Before 1750	Art/Music/Theatre/Dance				
MUSI313	Music of the Romantic Period	Art/Music/Theatre/Dance				
MUSI314	20th Century Music	Art/Music/Theatre/Dance				

MUSI319	Symphonic Music	Art/Music/Theatre/Dance				
MUSI320	Music for the Theatre	Art/Music/Theatre/Dance				
NURS101	Nursing 1		1 unit			
NURS102	Nursing 2		1 unit			
NURS201	Nursing 3		1 unit			
NURS202	Nursing 4		1 unit			
NURS205	Nursing Field Experience		2 units			
NURS498	Health Science Seminar		2 units, section	course	section	section
PHAP431	Advanced Applied Physics Laboratory			course		course
PHIL101	Problems in Philosophy	Philosophy				section
PHIL102	Ethics	Philosophy				
PHIL105	Philosophy of Religion	Philosophy				
PHIL106	Social & Political Philosophy	Philosophy				
PHIL201	Classical Philosophy	Philosophy				
PHIL202	Medieval Philosophy	Philosophy				
PHIL204	Modern Philosophy	Philosophy				
PHIL205	Contemporary Philosophy	Philosophy				
PHIL206	American Philosophy	Philosophy				
PHIL207	Asian Philosophies	Philosophy				
PHIL210	19th Century Philosophy	Philosophy				
PHIL215	Canadian Philosophy	Philosophy				
PHIL301	Philosophy of Science	Philosophy				
PHIL304	Existentialism	Philosophy				
PHIL305	Metaphysics	Philosophy				
PHIL306	Theory of Knowledge	Philosophy				
PHIL307	Philosophy of Art	Philosophy (for Music, Art, Theatre and Communication majors only)				
PHIL315	Philosophy of Law	Philosophy				
PHIL328	Humanities Seminar: Philosophy of Space and Time					course
PHIL400	Ethics and the Environment	Philosophy				
PHIL415	Ethical Issues in the Health Care Professions	Philosophy				section
PHIL425	Ethics in Business & Industry	Philosophy				course

PHIL499	Independent Study: Capstone			course		
PHYS101	Matter & Energy	Natural/Lab Science				
PHYS102	The Mechanical Universe	Natural/Lab Science				
PHYS110	How Things Work	Natural/Lab Science				
PHYS130	Physics 1	Natural/Lab Science				
PHYS131	Physics 2	Natural/Lab Science				
PHYS135	Meteorology	Natural/Lab Science				
PHYS140	Astronomy of the Solar System	Natural/Lab Science				
PHYS145	Stars, Galaxies, and Cosmology	Natural/Lab Science				
PHYS170	Intermediate General Physics 1	Natural/Lab Science				
PHYS171	Intermediate General Physics 2	Natural/Lab Science				course
PHYS250	Heat	Natural/Lab Science				
PHYS290	Electronics	Natural/Lab Science				
PHYS310	Physics Lab Development & Supervision	Natural/Lab Science				
PHYS315	Modern Physics	Natural/Lab Science				course
PHYS325	Optics	Natural/Lab Science				
PHYS330	Mechanics 1	Natural/Lab Science				
PHYS331	Mechanics 2	Natural/Lab Science				
PHYS350	Quantum Mechanics	Natural/Lab Science				
PHYS370	Electricity & Magnetism	Natural/Lab Science				
PHYS371	Electrodynamics	Natural/Lab Science				
PHYS431	Advanced Physics Laboratory			course		course
PLSH101	Polish 1				course	
PLSH102	Polish 2				course	
PLSH201	Polish 3				course	
PLSH202	Polish 4				course	
POLI101	Political Science	Economics/Political Science				
POLI105	American National Government	Economics/Political Science				
POLI107	World Politics	Economics/Political Science				
POLI210	State & Local Government	Economics/Political Science	1 unit			
POLI312	Media and Politics			course		course

POLI328	Social Science Seminar: Campaigning for Presidency					course
PORT201	Portuguese 3					course
PSYC100	Intro to Psychological Science	Psychology				
PSYC102	Child Development	Psychology				
PSYC103	Adolescent Development	Psychology				
PSYC111	Psychology of Early Childhood	Psychology (for PreK-4/Early Childhood Educ majors only)				
PSYC202	Research Methods in Psychology			course		
PSYC204	Writing for Psychology			course		course
PSYC235	Interpersonal & Leadership Skills		2 units, section			course
PSYC250	Social Psychology					section
PSYC313	Industrial & Organizational Psychology					course, effective SP04
PSYC328	Social Science Seminar: Issues in Comptemporary Leadership					course
PSYC400	Advanced Topics Seminar			course		
PSYC409	Applying Research Methods in Psychology			course		course
PYSC499	Independent Study in Psychology					course
PYAS300	Introduction to Physician Assistant Studies			course		
RECR105	Leisure, Wellness, and Personal Lifestyle	Wellness				
RECR205	Nutrition for Wellness	Wellness				
RECR210	Field Participation in Recreation Management		2 units			course
RECR215	Travel and Tourism					course
RECR301	Exercise Prescription					section
RECR320	Interpreting the Environment					section
RECR402	Leisure Education and Innovative Programming in Therapeutic Recreation					course, effective FA06
RECR410	Seminar in Current Issues in Recreation			course		course
RECR425	Professional Field Experience in Recreation		2 units			
RECR430	Assessment, Evaluation & Research for Recreation Services Method & Design			course		
RUSS101	Russian 1					course
RUSS102	Russian 2					course
RUSS201	Russian 3					course

RUSS202	Russian 4				course	
SCI110	Science, Technology, and Society	Natural/Lab Science				
SCI201	Inquiry into Physical Science	Natural/Lab Science				
SCI209	Secondary Science Methods 1		2 units	course		course
SCI315	Secondary Science Methods 2		2 units	course		course
SCI415	Student Teaching and Practicum Secondary 1: Science		1 unit	course		course
SCI416	Student Teaching and Practicum Secondary 2: Science		1 unit	course		course
SCI493	Student Teaching and Practicum 1: Secondary Education Science		2 units	course		course
SCI494	Student Teaching and Practicum 2: Secondary Education Science		2 units	course		course
SOCI101	Introduction to Sociology	Sociology / Anthropology / Geography / Social Work			course	
SOCI205	Racial & Ethnic Relations					section
SOCI300	Sociology of Deviance					section
SOCI301	Juvenile Delinquency				course	
SOCI328	Social Science Seminar: Sociology of Religion					course
SOCI330	Japanese Culture and Society				course	
SOCI352	Sociological Theory					section
SOCI404	Sociological Research			course		course
SOCI410	Sociology of Organizations					section
SOCW110	Diverse Populations and Groups	Sociology / Anthropology / Geography / Social Work			course	
SOCW301	Social Work Practice 1					course
SOCW302	Social Work Practice 2					course
SOCW401	Field Instruction & Professional Seminar 1		1 unit			
SOCW402	Field Instruction & Professional Seminar 2		1 unit			
SOCW412	Applied Social Research			course		course
SPAN101	Spanish 1				course	
SPAN102	Spanish 2				course	
SPAN201	Spanish 3				course	
SPAN202	Spanish 4				course	
SPAN203	Culture of Spain				course	section
SPAN204	Latin American Culture				course	
SPAN205	Beginning Spanish Composition & Conversation				course	section
SPAN215	Presentations from Hispanic Theatre				course	

SPAN307	Intro Spanish Literature	Literature			course	
SPAN308	Intro Spanish American Literatur	Literature			course	
SPAN312	Advanced Spanish				course	
SPAN314	Spanish Phonetics & Linguistics				course	
SPAN318	Spanish Drama 2				course	
SPAN320	Contemporary Spanish Women's Fiction				course	
SPAN322	Spanish American Regionalist Novel & the Short Story				course	
SPAN323	Spanish American Contemporary Novel and the Short Story				course	
SPEC101	Multicultural Education				course	
SPEC105	Foundations of Special Education				course	
SPEC407	Student Teaching & Practicum Mentally/Physically Disabled 1		1 unit	course		course
SPEC408	Student Teaching & Practicum Mentally/Physically Disabled 2		1 unit	course		course
SPEC421	Curriculum Methods for Secondary through Transition: Spec Educ Prof Sem		1 unit			
SPEC423	Curriculum Methods for Preschool through Elementary: Spec Educ Prof Sem		1 unit			
SPEC425	Law and Collaborative Practices		1 unit	course		course
SPEC493	Student Teaching & Practicum Mentally/Physically Disabled 1		2 units	course		course
SPEC494	Student Teaching & Practicum Mentally/Physically Disabled 2		2 units	course		course
SPRT323	Sport and Society				course	
SPRT324	Sport Law and Ethics					course
SPRT450	Sport Administration Professional Field Experience		2 units			
SPRT465	Organization and Administration of Sport and Athletic Programs			course		course
SSED210	Secondary Education 1: Social Studies		2 units	course		course
SSED415	Student Teaching and Practicum Secondary 1: Social Studies		1 unit	course		course
SSED416	Student Teaching and Practicum Secondary 2: Social Studies		1 unit	course		course
SSED493	Student Teaching and Professional Practicum 1		2 units	course		course
SSED494	Student Teaching and Professional Practicum 2		2 units	course		course
SURG270	Operating Room Clinical Externship		1 unit (2.0 sh); 1 unit (4.0 sh); 1 unit (5.0 sh)			course
THEA110	Theatre: An Orientation	Art/Music/Theatre/Dance				
THEA117	Technical Theatre	Art/Music/Theatre/Dance				
THEA121	Theatre Workshop 1	Art/Music/Theatre/Dance				
THEA134	Acting 1	Art/Music/Theatre/Dance				
THEA137	Creative Dramatics	Art/Music/Theatre/Dance				

THEA188	Stage Make-Up	Art/Music/Theatre/Dance				
THEA222	Children's Theatre	Art/Music/Theatre/Dance				
THEA300	Stage Lighting	Art/Music/Theatre/Dance				
THEA315	Intermediate Acting	Art/Music/Theatre/Dance				
THEA333	Oral Interpretation	Art/Music/Theatre/Dance				
THEA335	Directing	Art/Music/Theatre/Dance				
THEA337	Scene Design	Art/Music/Theatre/Dance				
THEA340	History of the Theatre	Art/Music/Theatre/Dance				
THEA366	Stage Costume Design	Art/Music/Theatre/Dance				
THEA370	Play Production	Art/Music/Theatre/Dance				
THEA421	Theatre Workshop 2	Art/Music/Theatre/Dance				
WMST101	Introduction to Women's Studies				course	